



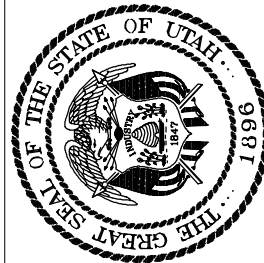
State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538–3018

SUU
FACILITIES MANAGEMENT
OFFICE BUILDING

DFCM PROJECT NUMBER: 08115730



State of Utah–Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT
4110 State Office Building/Salt Lake City, Utah 84114/538–3018

Project:
SUITES
MANAGEMENT
OFFICE BUILDING

Sheet Title:
COVER SHEET

Revisions:
CODE REVIEW 06.30.08

PROJECT NUMBER: 07483
DATE: 05.30.08
DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

GO.OI

SHEET NUMBER:
Sheet of

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2004	National Electrical Code	2005
International Mechanical Code	2004	Uniform Code for Building Conservation	
International Plumbing Code	2004	ADA Accessibility Guidelines	2003
International Fire Code	2004		
International Energy Conservation Code	2004		

A. Occupancy and Group:

B OCCUPANCY

Change in Use: Yes _____ No X_____

Mixed Occupancy: Yes _____ No X_____

Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: ID

Design Wind Speed: 90 mph, EXPOSURE D

C. Type of Construction (circle one):

I I II II III III IV V V

separation distance (in hours): A B HT A B

D. Fire Resistance Rating

Requirements for the Exterior Walls based on the fire

North: 0_____ South: 0_____

East: 0_____ West: 0_____

E. Mixed Occupancies: N/A_____

Nonseparated Uses: NONE_____

F. Sprinklers:

Required: NO_____ Provided: NO_____

Type of Sprinkler System: N/A_____

G: Number of Stories: ONE_____ Building Height: 22'–4"

H: Actual Area: 4,160 SQUARE FEET

I: Tabular Area: 9,000 SQUARE FEET

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_{t1}}{100} \right] + \left[\frac{A_{t2}}{100} \right]$

B OCCUPANCY

$= 9,000 + \left[\frac{(9,000 \times 25)}{100} \right]$

$= 11,250 \text{ SQUARE FEET}$

Frontage Increase:

$I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

$= 100 \left[\frac{132}{264} - 0.25 \right] \frac{30}{30}$

$= 25$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} < 1 \text{ N/A}$

c) Total Allowable Area for:

1) One Story: A (1) 11,250 SQ. FT.

2) Two Story: A (2) N/A

3) Three Story: A (3) N/A

d) Unlimited Area Building: Yes N/A No _____

Code Section: N/A

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors – Ceiling Floors	0	
Interior Bearing Walls	0		Roofs – Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Fire Barriers	0		Fire Walls	0	
			Fire Partitions	0	
			Smoke Partitions	0	

L. Design Occupant Load: 42_____

Exit Width Required: 8.4 INCHES

Exit Width Provided: 108 INCHES

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets – Required (m) 1_____ (f) 1_____

Provided (m) 1 WC (f) 1_____

b) Lavatories – Required (m) 1_____ (f) 1_____

Provided (m) 1_____ (f) 1_____

c) Bath Tubs or Showers: N/A_____

d) Drinking Fountains: 1_____

Service Sinks: 1_____

ITEM	SUBMITTAL DATE
I. PRE-ENGINEERED WOOD TRUSSES	09/15/08

- FOOTNOTES:
- 1) IN CASE OF CONFLICT WITH THE U.S. DEPARTMENT OF JUSTICE FEDERAL REGISTERS, ADA GUIDELINES AND SPECIFIC REFERENCE TO THE INTERNATIONAL BUILDING CODE ACCESSIBILITY CHAPTERS, THE MORE RESTRICTIVE REQUIREMENTS SHALL GOVERN.
- 2) ADDITIONAL CODE INFORMATION SHALL BE PROVIDED AT THE DISCRETION OF THE BUILDING OFFICIAL FOR COMPLEX BUILDINGS, INCLUDING, BUT NOT LIMITED TO:
- A) HIGH RISE REQUIREMENTS.
- B) ATRIUMS.
- C) PERFORMANCE BASED CRITERIA.
- D) MEANS OF EGRESS ANALYSIS.
- E) FIRE ASSEMBLY LOCATION SHEET.
- F) EXTERIOR AND INTERIOR ACCESSIBILITY ROUTE.
- G) FIRE STOPPING. (INCLUDING TESTED DESIGN NUMBER.)

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C2	SITE GRADING PLAN	MECHANICAL	
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A3.10	REFLECTED CEILING PLAN	E3.1	RISER AND DIAGRAMS
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A9.10	GENERAL DETAILS		
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A11.30	DOOR, FRAME AND WINDOW TYPES		
A11.31	DOOR AND WINDOW DETAILS		
A11.31	DOOR AND WINDOW DETAILS		

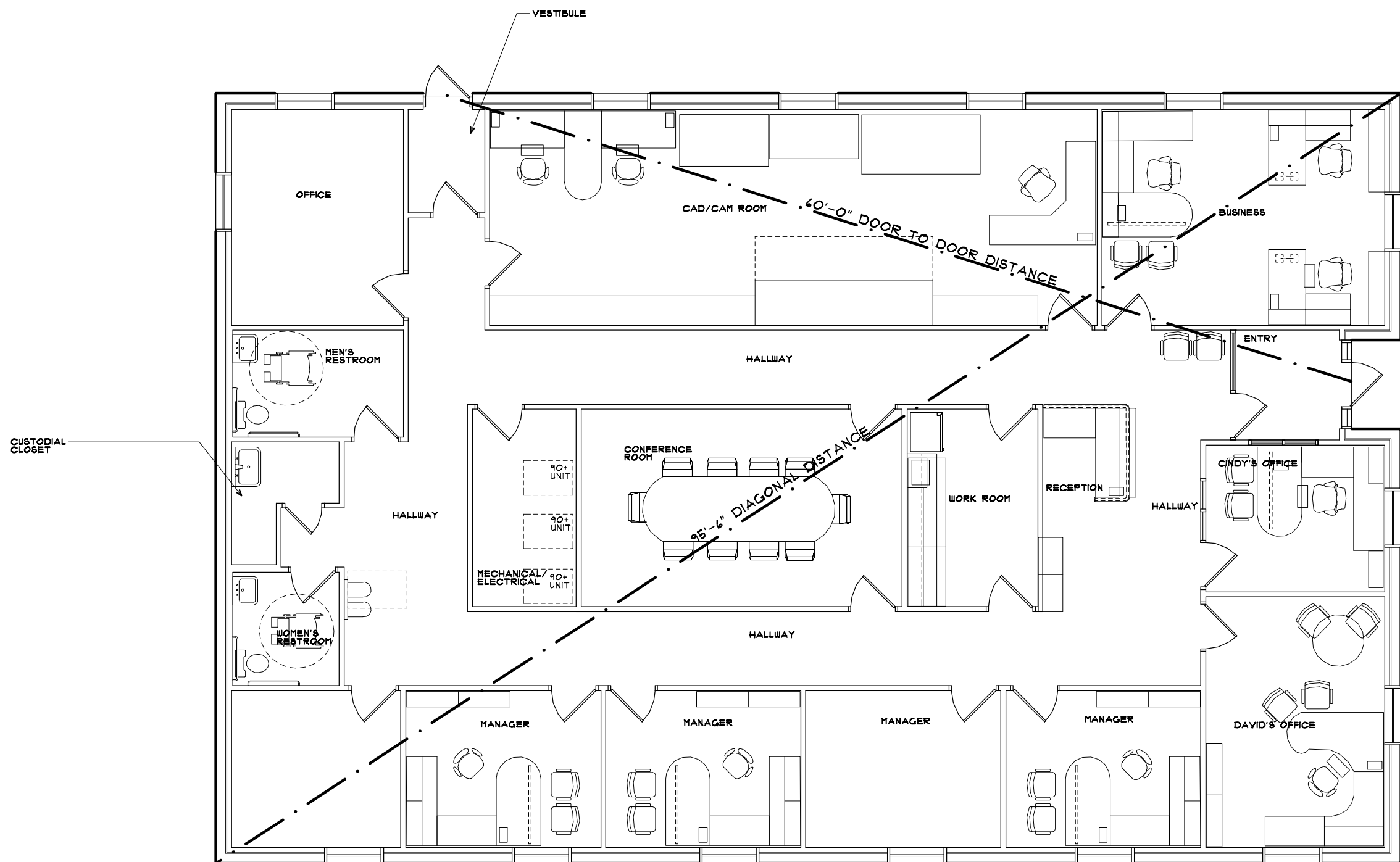
TYPICAL ABBREVIATIONS			
& △ ⊕ C C A.B. A.B.C.	AND ANGLE SQUARE CENTERLINE DIAMETER PLATE / PROPERTY LINE ANCHOR BOLT AGGREGATE	HDWR. H.M. HORZ. HT. HW. I.D. INSUL.	HARDWARE HOLLOW METAL HORIZONTAL HEIGHT HOT WATER INSIDE DIAMETER
A.C. ACOUS. A.CPAVING	AIR CONDITIONING ACOUSTICAL ASPHALTIC	INT. INV. JAN. JT. KIT.	INTERIOR INVERT JANITOR JOINT KITCHEN
ADJ. A.F.F.	ADJUSTABLE ABOVE FINISH FLOOR	LAM. LAV. LINEAT LT. MAX. M.B.	LAMINATE LAVATORY LINEAT FOOT LIGHT MAXIMUM MACHINE BOLT/
AGGR. ALUM. ALTI. APPROX. ARCH. ASPH.	AGGREGATE ALUMINUM ALTERNATE APPROXIMATE ARCHITECTURAL ASPHALT	MISC. M.ECH. MED.CAB. MEMB. MTL. MFR. MIR. MISC. M.O. M.R.	MISCELLANEOUS MECHANICAL MEDICINE CABINET MEMBRANE METAL MANUFACTURER MIRROR MISCELLANEOUS MASONRY OPENING MOISTURE
BD. BLDG. BLK. BLKG. BM. B.O. BOT. B.U.	BOARD BUILDING BLOCK BLOCKING BEAM BOTTOM OF BOTTOM BUILT-UP	MTD. MUL. N. N.C. NO. OR # N.T.S.	MOUNTED MULLION NORTH NOT IN CONTRACT NUMBER NOT TO SCALE
CAB. C.B. C.T. CHAN. (C) C.I. C.I.P. C.J.	CABINET CORNER BEAD CERAMIC TILE CHANNEL CAST IRON CAST IN PLACE CONSTRUCTION / CONTROL JOINT	O.A. O.C. O.F.C.I. OFF. OPNG. OPP.	OVERALL ON CENTER OWNER FURNISHED/ CONTRACTOR INSTALLED OFFICE OPENING OPPOSITE
CLG. CLO. CLR. C.M.U.	CEILING CLOSET CLEAR CONCRETE MASONRY UNIT	PNLG. PAR. PARTN PBWL.	PANELING PARAPET PARTITION PAPER BACKED
CNTRSNK. CNTR. TOP C.O. C.O. CONC. CONN. CONSTR. CONT. CONTR. CORR. CTR. C.W.	COUNTERSINK COUNTER TOP CLEAN OUT COLUMN CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR CORRIDOR CENTER COLD WATER	PL. P.LAM. PLAS. PR. P.V.C. P.WD. Q.T. R.A. R.D. REDWD. REF. REFRIG. REINF. REQ'D RESIL. RM. R.O. ROOF'G R.W.C. R.W.L. S.A. S.C. SCHED. SECT. S.F. SH. SHR. SHT. SIM. SPEC.C. SQ. S.S. STD. STL. STOR. STRUCT. SUSP. SYM.	PLATE OR PROPERTY LINE PLASTIC LAMINATE PLASTER PAIR POLYVINYL CHLORIDE PLYWOOD QUARRY TILE RADIUS/RISER RETURN AIR ROOF DRAIN REDWOOD REFERENCE REFRIGERATOR REINFORCED REQUIRED RESILIENT ROOM ROUGH OPENING ROOFING RAIN WATER CONDUCTOR LEADER SOUTH SUPPLY AIR SOLID CORE SCHEDULE SECTION SQUARE FEET SHELF SHOWER SHEET SIMILAR SPECIFICATION SQUARE STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURAL SUSPENDED SYMMETRICAL
DBL. DEPT. D.F. DIA. DIM. DISP. DN. DNSPT. D.O. DR. DTL. DWG. DWR.	DOUBLE DEPARTMENT DRAINAGE FLOW DIAMETER DIMENSION DISPENSER DOWN DOWNSPOUT DOOR OPENING DOOR DETAIL DRAWING DRAWER	TEL. T & G THK. T.O. T.O.G. T.O.W. T.S. T.T.B. TYP. U.N.O. UR. V.C.T. VERT. VTR	TREAD TELEPHONE TONGUE AND GROOVE THICK TOP OF TOP OF CURB T.O.W. TUBE STEEL TELEPHONE TERMINAL BOARD TYPICAL UNLESS NOTED OTHERWISE URINAL VYNIL COMPOSITION TILE VERTICAL VENT-THRU ROOF
E. E.A. E.J. ELEC. ELEC. PAN.	EAST EACH EXPANSION JOINT ELECTRICAL ELECTRICAL	W. W.C. W.D. W.P. W.R. W.S. WT.	WEST WITH AND WITHOUT WATER CLOSET WOOD WINDOW WEATHERPROOF WATER RESISTANT WEEP SCREEN WEIGHT
ELEV. EMER. ENCL. EQ. EQUIP. E.W.C.	ELEVATION ELEVATOR ENCLOSURE EQUAL EQUIPMENT ELECTRIC		
EXIST. EXP. EXT.	EXISTING EXPANSION EXTERIOR		
F.D. FDN. FBRGL. F.E.	FLOOR DRAIN FOUNDATION FIBERGLASS FIRE		
F.E.C. FFE. F.G. F.H.C.	FIRE EXTINGUISHER FINISH FLOOR ELEVATION FINISH GRADE FIRE HOSE CABINET		
FIN. FIXT. FLASH'G FLR. FLUOR. FRF. FRMG. FT. FTG. FURN. FURN.	FINISH FIXTURE FLASHING FLOOR FLUORESCENT FIREPROOF FRAMING FOOT OR FEET FOOTING FURNITURE FURRING		
GA. GALV. GL. GL.BM. GR. GRND. GWB.	GAUGE GALVANIZED GRAB BAR GLASS GLU-LAM BEAM GRADE GYPSUM		
GYP. BD.	GYPSUM BOARD		
H.B. H.C. HOP. HDWD.	HOSE BIBB HOLLOW CORE HANDICAP HARDWOOD		

ACCESSIBILITY GENERAL NOTES	
CODE: CURRENT ANSI	
WATER FOUNTAINS:	
1.	ONE MUST HAVE A SPOUT WITHIN 3/4 INCHES OF FLOOR.
2.	SPOUT MUST BE AT THE FRONT OF THE UNIT.
3.	CONTROLS MUST BE AT OR NEAR THE FRONT OF THE UNIT.
4.	A CANTILEVERED UNIT IS REQUIRED TO PROVIDE A CLEAR AREA UNDER THE UNIT OF 21 INCHES HIGH, 30 INCHES WIDE AND 17 INCHES DEEP.
5.	A CLEAR AREA OF 30X48 INCHES IS REQUIRED AT THE FOUNTAIN. THE CLEAR AREA IS REQUIRED TO PROVIDE FOR A FORWARD APPROACH WITH A CANTILEVERED UNIT AND FOR A SIDE APPROACH OTHERWISE.
TOILET FACILITIES:	
1.	A 5' DIAMETER UNOBSTRUCTED TURNING SPACE IS REQUIRED IN THE TOILET ROOM.
2.	WHEN A WATER CLOSET IS NOT IN A COMPARTMENT, THE CLEAR AREA REQUIRED IS: A) 48 INCHES WIDE BY 54 INCHES DEEP WITH A SIDE APPROACH, B) 48 INCHES WIDE BY 44 INCHES DEEP WITH A FRONT APPROACH, C) 60 INCHES WIDE BY 56 INCHES DEEP WITH BOTH APPROACHES, D) SIDE BAR IS REQUIRED TO START WITHIN 12 INCHES OF THE BACK WALL AND EXTEND TO 54 INCHES FROM THE BACK WALL. THE REAR BAR IS REQUIRED TO BE 36 INCHES LONG.
3.	WHEN WATER CLOSET IS IN A COMPARTMENT, THE AREA REQUIRED IS: A) 56 INCHES DEEP BY 60 INCHES WIDE WITH A GRAB BAR AT THE BACK AND ONE AT THE SIDE, B) DOOR IS AT THE FRONT OR SIDE, C) 66 INCHES DEEP BY 36 OR 48 INCHES WIDE WITH BRAB BARS ON BOTH SIDES AND DOOR AT FRONT, D) IF A FLOOR MOUNTED WATER CLOSET IS USED, THE DEPTH DIMENSION INDICATED ABOVE MUST BE INCREASED BY 3 INCHES.
4.	D) SIDE BARS ARE REQUIRED TO START WITHIN 12 INCHES OF THE BACK WALL AND EXTEND TO 54 INCHES FROM THE BACK WALL. THE REAR BAR IS REQUIRED TO START WITHIN 6 INCHES OF THE SIDE WALL AND BE 36 INCHES LONG.
5.	THE BARS ARE TO BE 33 TO 36 INCHES ABOVE THE FINISH FLOOR.
6.	THE TOP OF THE SEAT OF THE WATER CLOSET IS REQUIRED TO BE 17 TO 19 INCHES ABOVE THE FLOOR.
7.	URINALS ARE REQUIRED TO BE STALL TYPE OR HAVE AN ELONGATED RIM AND BE WITHIN 17 INCHES OF THE FLOOR.
8.	A CLEAR AREA OF 30X48 INCHES IS REQUIRED IN FRONT OF THE URINAL.
9.	ACCESSIBLE LAVATORIES SHALL PROVIDE A CLEAR AREA UNDER THE LAVATORY OF 29 INCHES.
10.	A CLEAR AREA OF 30X48 INCHES IS REQUIRED IN FRONT OF THE LAVATORY.
11.	THE BOTTOM OF THE MIRROR IS REQUIRED TO BE WITHIN 40 INCHES OF THE FLOOR.

GENERAL NOTES:	
THESE PLANS ARE THE PROPERTY OF SARGENT DESIGN GROUP AND ARE NOT TO BE USED FOR ANY OTHER LOCATION HEREON. COPYRIGHT, 2001 - ALL RIGHTS RESERVED.	
NO CHANGES ARE TO BE MADE TO THESE DRAWINGS WITHOUT THE KNOWLEDGE OR CONSENT OF THE ARCHITECT/ENGINEER WHOSE SIGNATURE APPLIES HEREON.	
DIMENSIONS AS INDICATED ARE THE DIMENSIONS TO BE USED FOR CONSTRUCTION. DO NOT SCALE THE PRINTS. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT AND OWNER.	
NO FRAMING OF ANY TYPE IS TO BE CONCEALED PRIOR TO INSPECTIONS BY GOVERNING AGENCIES.	
REFERENCE TO ANY DETAILS OR DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWING.	
DIMENSIONS AND CONDITIONS AT THE JOB SITE SHALL BE VERIFIED BY ALL CONTRACTORS. IT IS THE RESPONSIBILITY OF THOSE CONTRACTORS TO EXAMINE THE THE EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS TO THE OWNER SINCE PROPOSALS MUST TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS IT MAY AFFECT WORK. DISCREPANCIES IN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE RESPONSIBLE PARTIES AND TO THE OWNER. CORRECTED DRAWINGS AND INSTRUCTIONS SHALL BE ISSUED BY THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY WORK. ALL DIMENSIONS ARE TO BE ROUGH UNLESS OTHERWISE NOTES. DO NOT SCALE DRAWINGS.	
ALL WORK, CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE BUILDING CODE AND WITH OTHER RULES, REGULATIONS AND ORDINANCES GOVERNING THE PLACE OF CONSTRUCTION.	
IT IS THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIAL OR BOTH TO BRING TO THE ATTENTION OF THE ARCHITECT AND THE OWNER ANY DISCREPANCIES OR CONFLICT BETWEEN THE REQUIREMENTS OF THE CODE AND THE DRAWINGS.	
ABBREVIATIONS THROUGH OUT PLANS ARE THOSE IN COMMON USE, NOTIFY THE ARCHITECT OF ANY ABBREVIATIONS IN QUESTION.	
ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHEREVER REQUIRED BY BUILDING CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECHANICAL PLUMBING OR ELECTRICAL EQUIPMENT. WHETHER OR NOT INDICATED ON THE DRAWINGS, CONTRACTORS SHALL COORDINATE SIZE, LOCATION AND TYPE OF ACCESS PANEL WITH OTHER CONTRACTORS WORK AND RECEIVE APPROVAL OF THE ARCHITECT. ACCESS PANELS SHALL BE LOCATED IN AREAS INCONSPICUOUS AS POSSIBLE WITHOUT AFFECTING NORMAL OPERATION OR MAINTENANCE OF MECHANICAL, PLUMBING OR ELECTRICAL SYSTEMS.	

ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT, AND SHALL BE IN COMPLIANCE WITH ALL APPLICABLE ADA/ANSI REQUIREMENTS AS SET FORTH BY LOCAL, COUNTY, STATE OR NATIONAL JURISDICTION. LEGAL EXITS SHALL NOT BE BLOCKED AT ANY TIME.	
FINAL CLEAN-UP AND DISPOSAL: GENERAL CONTRACTOR TO REMOVE ALL DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE OWNER'S PROPERTY TO A LAWFUL DISPOSAL AREA AND PAY ALL HAULING AND DUMPING COSTS. CONFORM TO APPLICABLE LOCAL, COUNTY, STATE AND NATIONAL LOCAL LAWS, REGULATIONS, CODES AND ORDERS UPON COMPLETION OF WORK. ALL CONSTRUCTION AREAS (AT A MINIMUM) SHALL BE LEFT VACUUM-CLEAN AND FREE FROM DEBRIS. CLEAN ALL DUST, DIRT, STAINS, HAND MARKS, PAINT SPOTS, DROPPINGS AND REPAIR ALL BLEMISHES.	
ANY/ALL WORK CONSTRUCTED, ORDERED OR INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE TRADE SUBCONTRACTORS AT THOSE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL EXPENSE. EITHER DIRECT OR INDIRECT TO THE OWNER, ARCHITECT OR ARCHITECT'S OTHER CONSULTANTS.	
GENERAL CONTRACTOR SHALL VERIFY ALL FIRE/SAFETY REQUIREMENTS (I.E. SPRINKLER/EXTINGUISHING SYSTEMS) AND SHALL PROVIDE DESIGN AND DEFERRED SUBMITTAL OF THOSE DESIGN DRAWINGS THROUGH THEIR OWN SUBCONTRACTOR.	
△ DFCM - ALL CONSTRUCTION TO COMPLY WITH ALL THE APPLICABLE REQUIREMENTS AND STANDARDS OF DFCM, INCLUDING, BUT NOT LIMITED TO: ENHANCED ACCESSIBILITY. THE DFCM STANDARDS CAN BE FOUND AT THE FOLLOWING WEB SITE: www.dfc.m.utah.gov .	
△ SUU - ALL CONSTRUCTION TO ALSO COMPLY WITH THE APPLICABLE REQUIREMENTS AND STANDARDS OF SUU, WHERE SAID STANDARDS ARE MORE RESTRICTIVE THAN DFCM STANDARDS. THE SUU STANDARDS CAN BE FOUND AT THE FOLLOWING WEB SITE: www.suu.edu/ad/facilities .	

TYPICAL SYMBOLS	
NAME XXX	ROOM NAME/NUMBER
DTL BHT	DETAIL CALLOUT
DTL BHT	SECTION CALLOUT
DTL BHT TLO	INTERIOR ELEVATION CALLOUT
#	KEYNOTE
#	DOOR NUMBER
#	WINDOW TYPE
MINIMUM MAT'L. SPECS.	
1. CONCRETE	f' = 2,000 P.S.I.
2. MASONRY	GRADE "N", f' = 1,350 P.S.I.
3. MORTAR	TYPE "S", 1,800 P.S.I.
4. GROUT	f' = 2,000 P.S.I.
5. REINFORCING STEEL	ASTM, A-615, f' = 36 K.S.I.
6. STRUCTURAL STEEL	ASTM, A-36, f' = 36 K.S.I.
7. GLUE-LAM BEAMS	f' = 2,400 P.S.I. = 1.8 X 10 ³ P.S.I.
8. PLYWOOD ROOF	1/2" STANDARD SHEETING WITH EXT. GLUE PANEL INDEX 32/16
9. PLYWOOD FLOOR	3/4" T&G STANDARD SHEETING, PANEL INDEX 48/24 (MAY USE BLOCKING, OR 1/4" UNDERLAMENT OR 25/32 WOOD STRIP FINISH FLOOR IN LIEU OF T&G)
10. BOLTS	A-307, f' = 33 K.S.I.
11. LUMBER:	
ALL LUMBER TO BEAR APPROVED GRADES/STAYS	
LUMBER USAGE	ALLOWABLE UNIT STRESS
2X4 STUDS	Fc (PARALLEL) = 600 P.S.I.
2X6 STUDS	Fc (PARALLEL) = 675 P.S.I.
2X6 THRU 2X14 JOISTS	Fb (REPETITIVE) = 1450 P.S.I.
4X BEAMS	Fb (SIMPLE) = 1250 P.S.I.
6X BEAMS	Fb (SIMPLE) = 1350 P.S.I.
4X4 POSTS	Fc (PARALLEL) = 1000 P.S.I.
6X6 POSTS	Fc (PARALLEL) = 1000 P.S.I.
TIMBERS (VEGAS)	Fb (SIMPLE) = 1200 P.S.I.
DECKING	Fb (REPETITIVE) = 1650 P.S.I.
GLUE-LAM BEAMS	Fb (SIMPLE) = 2400 P.S.I.
GLUE-LAM BEAMS	Fb (CANTILEVER) = 2400 P.S.I. or (CONTINUOUS)
LUMBER USAGE	MODULUS OF ELASTICITY
2X4 STUDS	1.5 X 10 ⁶ P.S.I.
2X6 STUDS	1.5 X 10 ⁶ P.S.I.
2X6 THRU 2X14 JOISTS	1.7 X 10 ⁶ P.S.I.
4X BEAMS	1.7 X 10 ⁶ P.S.I.
6X BEAMS	1.6 X 10 ⁶ P.S.I.
4X4 POSTS	1.7 X 10 ⁶ P.S.I.
6X6 POSTS	1.6 X 10 ⁶ P.S.I.
TIMBERS (VEGAS)	1.6 X 10 ⁶ P.S.I.
DECKING	1.7 X 10 ⁶ P.S.I.
GLUE-LAM BEAMS	1.8 X 10 ⁶ P.S.I.
GLUE-LAM BEAMS	1.8 X 10 ⁶ P.S.I.
LUMBER USAGE	SPECIES & GRADE OR COMBINATION SYMBOL
2X4 STUDS	D.F.L. #3
2X6 STUDS	D.F.L. #3
2X6 THRU 2X14 JOISTS	D.F.L. #2
4X BEAMS	D.F.L. #2
6X BEAMS	D.F.L. #1
4X4 POSTS	D.F.L. #2
6X6 POSTS	D.F.L. #1
TIMBERS (VEGAS)	D.F.L. #1
DECKING	COMMERCIAL D.F.L.
GLUE-LAM BEAMS	DF/DF 24F-V4
GLUE-LAM BEAMS	DF/DF 24F-V8
*UNLESS NOTED OTHERWISE ON THE DRAWINGS.	



EGRESS PLAN - EXIT DOOR PLACEMENT
NOT TO SCALE

SARGENT DESIGN GROUP
ARCHITECTURE | PLANNING

2390 WEST HIGHWAY 56
SUITE 404
CEDAR CITY, UTAH 84720
OFFICE: (435) 586-8510
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State of Utah-Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT
4110 State Office Building/Salt Lake City, Utah 84143/208-3018

Project: **UTAH FACILITIES CONSTRUCTION AND MANAGEMENT**

Sheet Title:
GENERAL NOTES

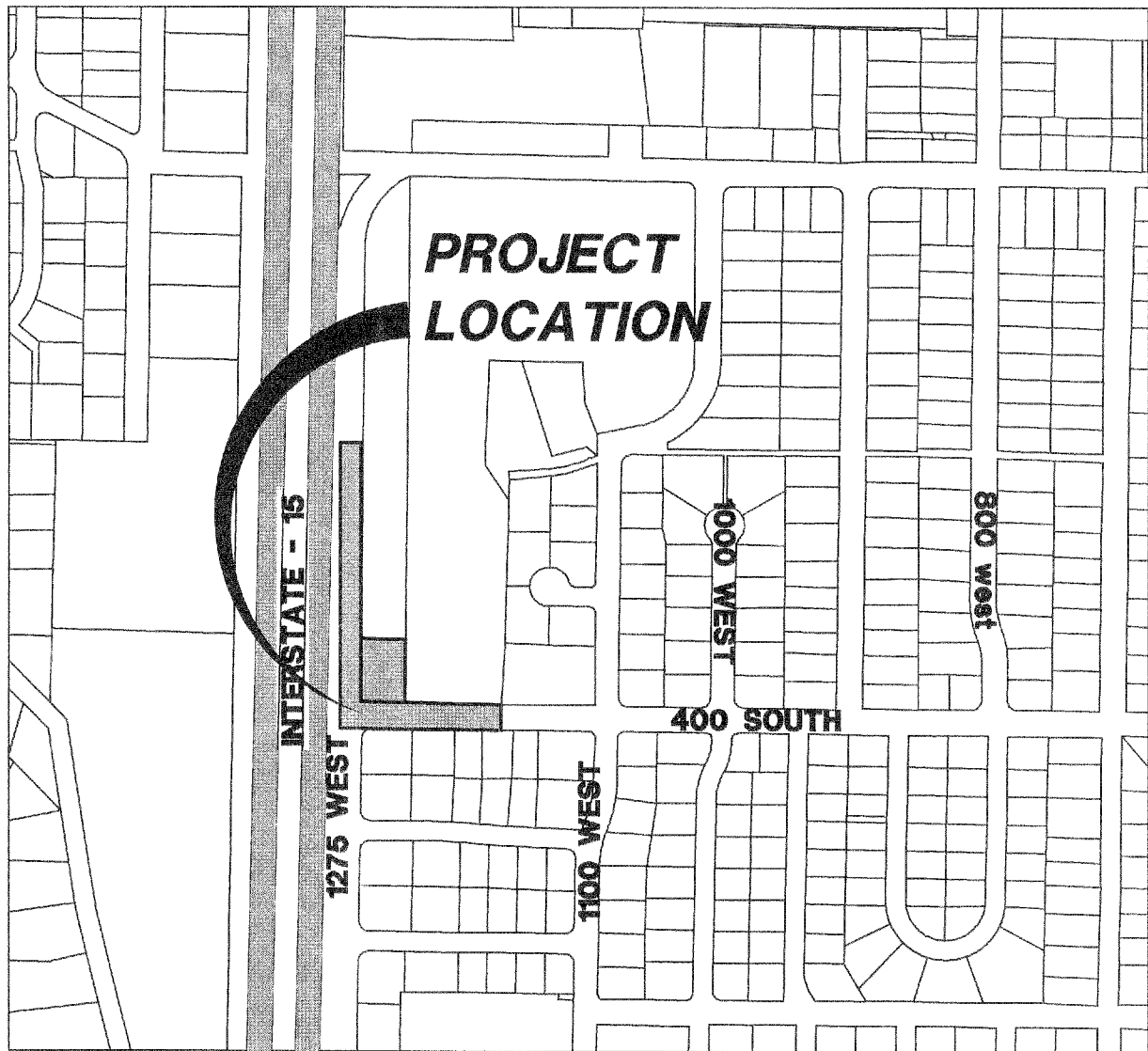
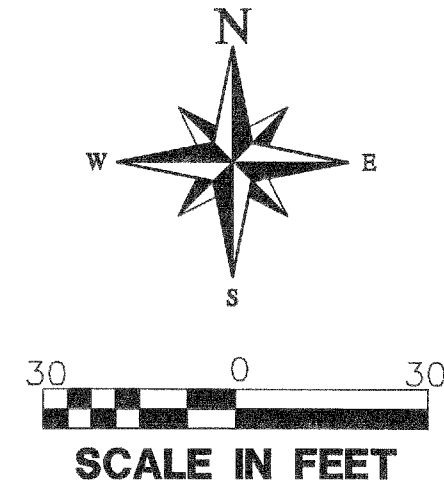
Revisions:
△ CODE REVIEW 06.30.08
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PROJECT NUMBER: 01483
DATE: 05.30.08
DRAWN BY: J.C.S.
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APPROVED BY: J.C.S.

G.I.O
SHEET NUMBER:
Sheet of

CONSTRUCTION DRAWINGS FOR:
SUU FACILITIES MANAGEMENT OFFICE

LOCATED IN SECTION 15, T36S, R11W, S.L.B.M.
CEDAR CITY, IRON COUNTY, UTAH

DEVELOPED BY
SOUTHERN UTAH UNIVERSITY



VICINITY MAP

GENERAL NOTES

- UTILITY LOCATIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR MUST CALL BLUE STAKES PRIOR TO ANY EXCAVATION. (BLUE STAKES 1-800-662-4111)
 - THE GROUND SURFACE SURROUNDING THE EXTERIOR OF THE BUILDINGS SHOULD BE SLOPED TO DRAIN AWAY IN ALL DIRECTIONS. A MINIMUM SLOPE OF 6" IN THE FIRST 10' IS RECOMMENDED.
 - ALL IMPROVEMENTS MUST BE BUILT TO CEDAR CITY SPECIFICATIONS AND STANDARDS. ALL CONSTRUCTION SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH CEDAR CITY CORPORATION STANDARDS AND SPECIFICATIONS AND ALL APPLICABLE CODES.
 - DIMENSIONS TAKE PRECEDENCE OVER SCALING, ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 - CONTRACTOR TO MINIMIZE ROAD CLOSURES OF EXISTING ROADS AS MUCH AS POSSIBLE. PROVIDE TRAFFIC CONTROL DEVICES AS REQUIRED FOR CONSTRUCTION AND ROAD CLOSURES PER REQUIREMENTS OF MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION).
 - BUILDING FOUNDATION, EXCAVATION, RETAINING WALLS, AND PAVEMENT SHOULD FOLLOW THE RECOMMENDATIONS OF THE SOILS REPORT.
 - THE CURRENT ZONE FOR THIS PROPERTY IS R3.
 - THIS PROPERTY LIES WITHIN THE AIRPORT INFLUENCE ZONE.
 - THIS PROJECT DOES NOT LIE WITHIN ANY FLOOD ZONE.
 - THE BASIS OF BEARINGS FOR THIS PROJECT IS N00°25'10"W, 1398.95 FEET FROM THE INTERSECTION OF 1275 WEST STREET AND 400 SOUTH STREET TO THE INTERSECTION P.I. OF 1275 WEST STREET AND 300 SOUTH STREET.
- NOTE: THIS PROJECT IS NOT ON THE CEDAR CITY OPS COORDINATE CONTROL NETWORK. THIS PROJECT IS BASED ON THE BULLOCH BROTHERS ENGINEERING CONTROL SHEET THAT WAS USED FOR CREATING ALL EXISTING SUBDIVISIONS, STREETS, AND IMPROVEMENTS IN THIS AREA.
- BENCH MARK=B.B.E. P.K. NAIL AND FLASH AT THE INTERSECTION OF 1275 WEST STREET AND 400 SOUTH STREET. ELEVATION=5812.67. THIS IS A TEMPORARY BENCH MARK. THIS MONUMENT WILL BE REPLACED WITH A BRASS CAP CENTERLINE MONUMENT DURING CONSTRUCTION.
 - ALL PUBLIC IMPROVEMENTS IN 1275 WEST STREET AND 400 SOUTH STREET SHOWN ON THESE PLANS TO BE DONE BY OTHERS.

UTILITY INFORMATION

UTILITY STATEMENT:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS. (BLUE STAKES 1-800-662-4111)

UTILITY CONTACTS:

ROCKY MOUNTAIN POWER KENDALL CRIPPS 2217 KITTYHAWK DRIVE CEDAR CITY, UTAH 84720 (435) 865-3380	QUESTAR GAS JIM MCPHIE 946 PRODUCTION ROAD CEDAR CITY, UTAH 84720 (435) 865-6255
QWEST TIM SQUIRES CEDAR CITY OFFICE (435) 586-2470	BRESNAN CABLEVISION MARK MARTELL 98 WEST HARDING AVENUE CEDAR CITY, UTAH 84720 (435) 586-8334
CITY STREETS SANDY WEBB (435) 586-2967	CITY SEWER DARRELL OLMSTED (435) 867-9426
CITY WATER ROB MITCHELL (435) 586-2968	CITY ENGINEERING KIT WAREHAM (435) 865-5119
CITY STORM DRAIN RICK HOLMAN (435) 586-2912	

SHEET INDEX

SHT.	DESCRIPTION
C1	COVER
C2	SITE GRADING PLAN
C3	SITE / UTILITY PLAN
C4	PLAN AND PROFILE
C5	PLAN AND PROFILE
C6	DETAILS
C7	DETAILS

ALL EXISTING UTILITY LOCATIONS MUST BE
FIELD VERIFIED PRIOR TO CONSTRUCTION.

SOILS NOTE

DUE TO SOIL CONDITIONS EXISTING IN CEDAR CITY, UTAH, WHICH OCCASIONALLY CAUSE SOIL SUBSIDENCE PROBLEMS RESULTING IN DAMAGE TO STRUCTURES ERECTED THEREON, THE CITY COUNCIL OF CEDAR CITY REQUIRES PROPOSED SUBDIVISIONS TO CONDUCT TESTING OF THE SOIL CONDITIONS EXISTING IN SAID SUBDIVISION. A COPY OF THE FINDINGS OF THAT TESTING ALONG WITH RECOMMENDATIONS BASED ON THE SAME HAS BEEN FILED WITH THE SUBDIVIDER OF THE PROPERTY, WHOSE NAME AND ADDRESS ARE LISTED BELOW AND WITH THE BUILDING INSPECTOR OF CEDAR CITY. COPIES OF THIS REPORT MAY BE INSPECTED AT BOTH LOCATIONS BY THE GENERAL PUBLIC AND ANY PERSONS INTERESTED IN PURCHASING PROPERTY LOCATED WITHIN SAID SUBDIVISION.

PUBLIC WORKS DIRECTOR'S APPROVAL

I, RICK HOLMAN, PUBLIC WORKS DIRECTOR FOR CEDAR CITY CORPORATION, DO HEREBY CERTIFY THAT THESE CONSTRUCTION DRAWINGS HAVE BEEN EXAMINED AND ACCEPTED BY ME THIS _____ DAY OF _____.

RICK HOLMAN - PUBLIC WORKS DIRECTOR

CITY ENGINEER'S APPROVAL

I, KIT C. WAREHAM, CITY ENGINEER FOR CEDAR CITY CORPORATION, DO HEREBY CERTIFY THAT THESE CONSTRUCTION DRAWINGS HAVE BEEN EXAMINED AND ACCEPTED BY ME THIS _____ DAY OF _____.

KIT C. WAREHAM - CITY ENGINEER

ENGINEER'S CERTIFICATION

ALL COMMON STREETS, DRAINAGE, WATER, AND SEWER IMPROVEMENTS FOR THIS PROJECT ARE DESIGNED ACCORDING TO APPLICABLE CODES AND STANDARDS.

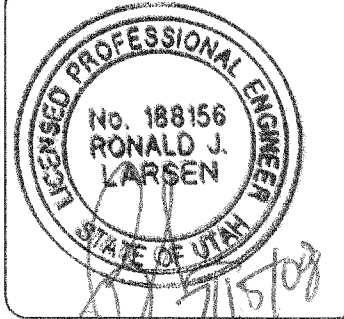
RONALD LARSEN P.E.

DATE

SUU FACILITIES MANAGEMENT ROAD IMPROVEMENT KEY

REVISIONS		NO	DESCRIPTION	DATE	BY
1	REV. PER CITY COMMENTS	1		6/30/08	TS

InSite Engineering, P.C.
Civil Engineers - Land Surveys - Land Planners
1803 W. Royal Harte Dr., Suite 200
Cedar City, Utah 84720
Phone: (435) 867-4565
Fax: (435) 867-4565



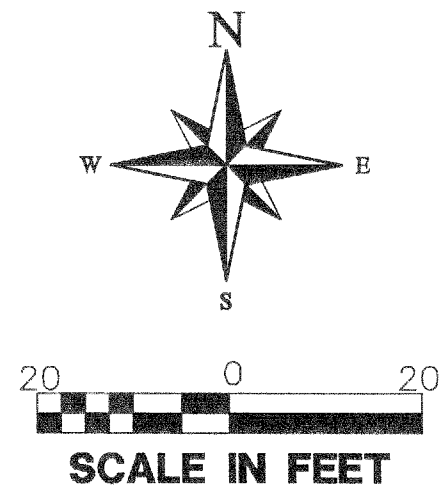
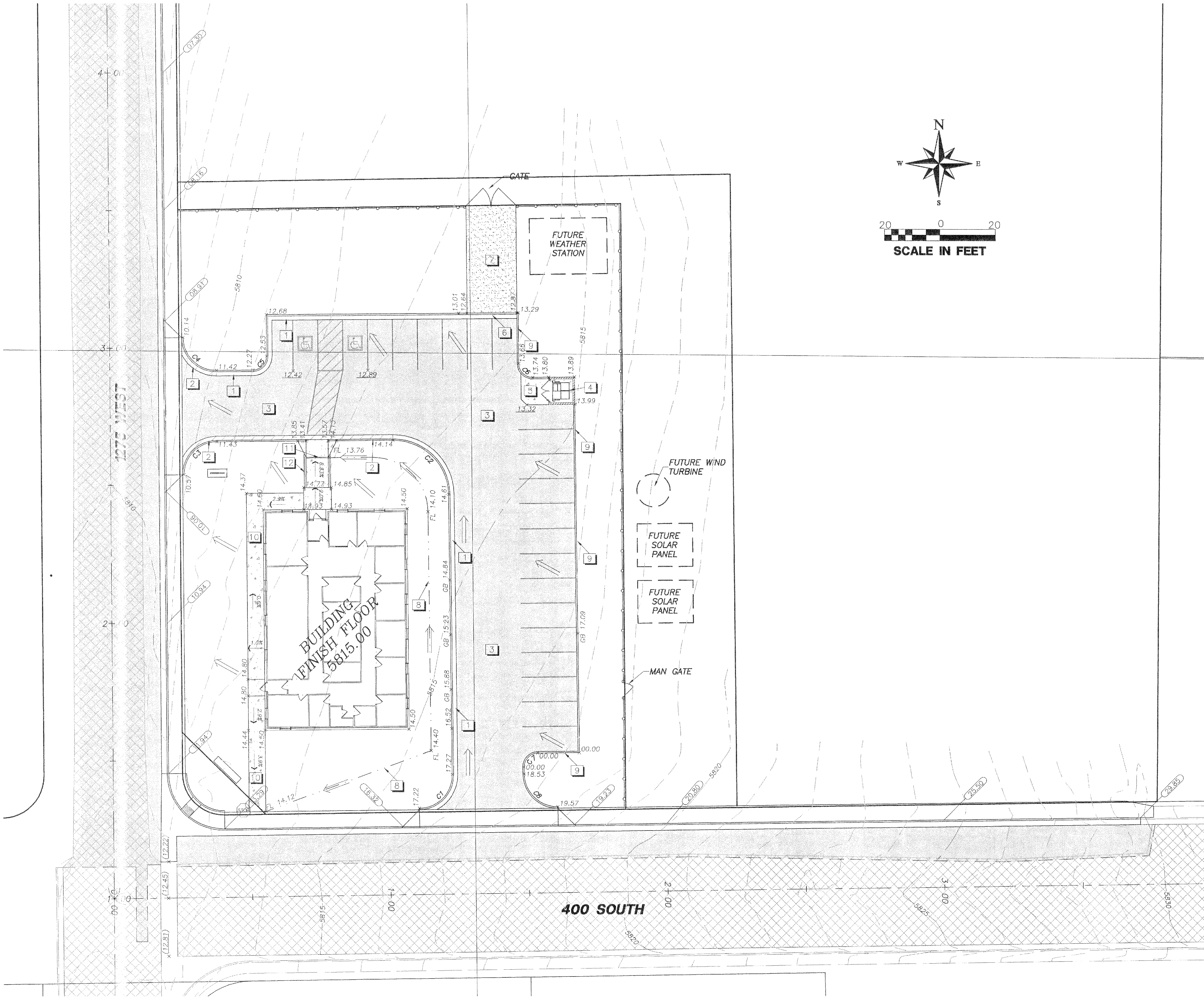
COVER PAGE FOR:
SUU FACILITIES MANAGEMENT OFFICE
400 S. STREET & 1275 W. STREET
CEDAR CITY, UTAH 84720
LOCATED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15 R11W T36S S15E1

DATE: JUNE 23, 2008
SCALE: 1"=30'

JOB NO.
2750C

SHEET NO.

C1



LEGEND

- x---x--- EXISTING FENCE
- ⊠ FOUND MONUMENT AS DESCRIBED
- ⊕ EXISTING CENTERLINE MONUMENT
- xx.xx TBC GRADE
- (xx.xx) EXISTING GRADE
- xxx.xx TOP OF ASPHALT
- PROPOSED STRIPING BY CONTRACTOR
- PROPOSED DRAINAGE FLOW
- T.O.W. TOP OF WALL ELEVATION
- B.O.W. BOTTOM OF WALL ELEVATION
- ▨ PROPOSED SPILL CURB

CONSTRUCTION NOTES

- 1 NEW 24" CATCH CURB
- 2 NEW 24" SPILL CURB
- 3 PARKING LOT PAVING DESIGN
3" ASPHALT OVER 8" ROAD BASE OVER 8" TYPE 1 GRAVEL PER SOILS REPORT
- 4 NEW TRASH ENCLOSURE PER DTL.
- 5 CONCRETE APRON
- 6 CURB CUT FOR ACCESS TO NORTH PROPERTY
- 7 NEW GRAVEL DRIVE
- 8 DRAINAGE SWALE
- 9 NEW 6" CURB PER DTL.
- 10 NEW 6' SIDEWALK PER DTL. SHEET C6
- 11 4" MAX .25" SQUARE STEEL TUBING
- 12 NEW HANDICAP RAMP RAILING PER DTL.

PUBLIC IMPROVEMENTS NOTE:

ALL PUBLIC IMPROVEMENTS IN 1275 WEST STREET AND 400 SOUTH STREET SHOWN ON THESE PLANS TO BE DONE BY OTHERS.

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	DELTA	CHORD	CHORD BEARING
C1	18.85	12.00	12.00	90°00'00"	16.97	N44°19'24"E
C2	31.33	20.00	19.91	89°44'34"	28.22	N45°32'53"W
C3	18.85	12.00	12.00	90°00'00"	16.97	S44°34'50"W
C4	18.85	12.00	12.00	90°00'00"	16.97	S45°25'10"E
C5	7.85	5.00	5.00	90°00'00"	7.07	N44°34'50"E
C6	7.88	5.00	5.02	90°15'26"	7.09	S45°32'53"E
C7	7.85	5.00	5.00	90°00'00"	7.07	S44°19'24"W
C8	18.85	12.00	12.00	90°00'00"	16.97	S45°40'36"E

ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

PROJECT: 2150C - SUU FAC MGMT. OFFICE (CIVIL)/ASITE PLAN/GRADING

SITE GRADING PLAN FOR:

SUU FACILITIES MANAGEMENT OFFICE

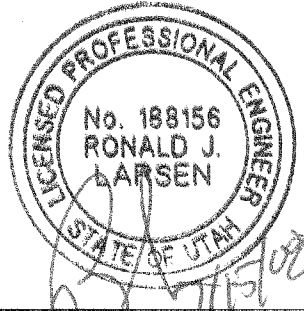
400 S. STREET & 1275 W. STREET
CEDAR CITY, UTAH 84720
LOCATED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15 R1W T36S 91E1

DATE: JUNE 23, 2008
SCALE: 1"=20'

JOB NO.
2150C

SHEET NO.

C2

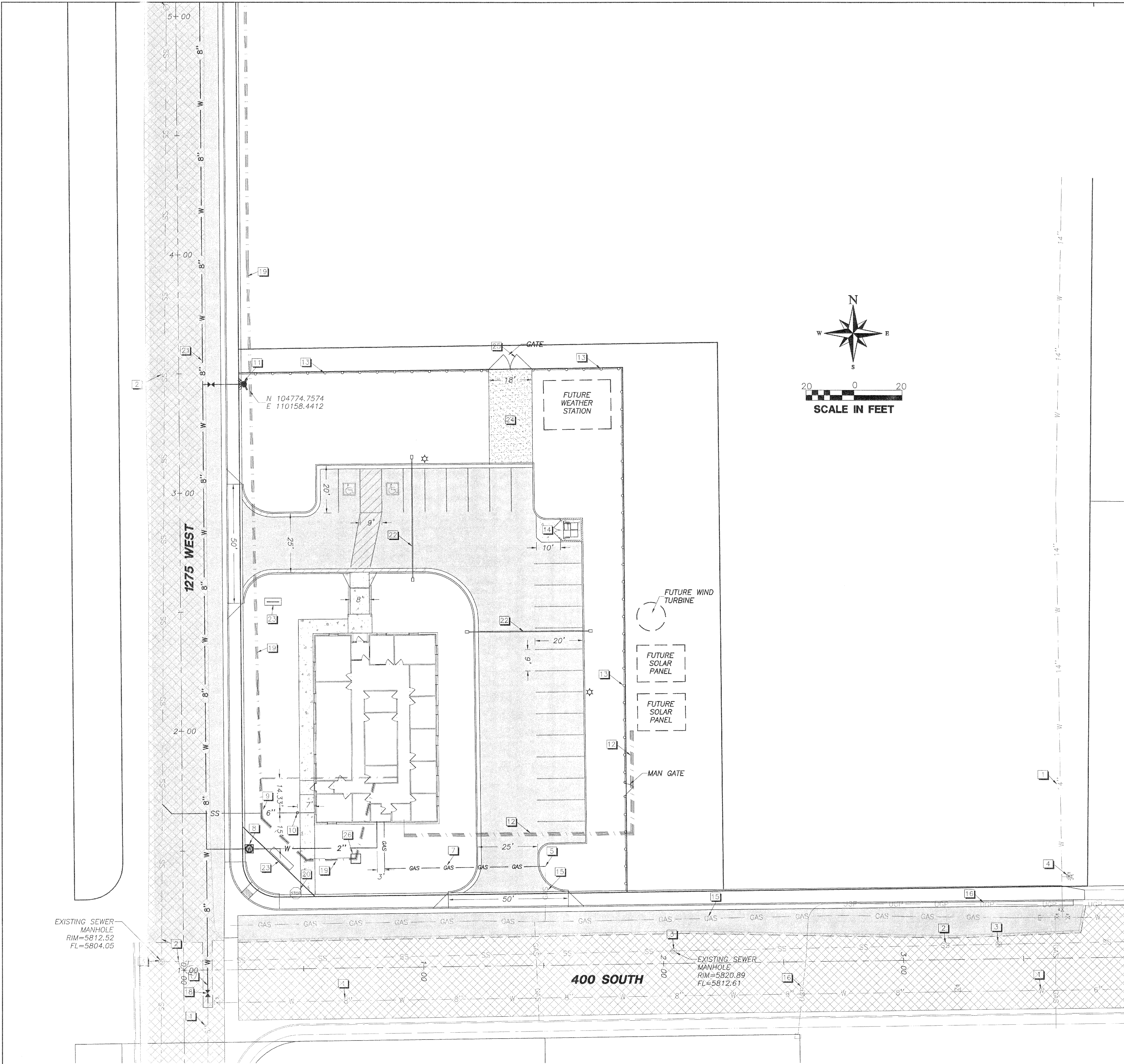


InSite Engineering, P.C.
Civil Engineers - Land Surveys - Land Planners
1889 W. Royal Hunt Dr., Suite 200
Cedar City, Utah 84720
Phone: 435.867.1486
Fax: 435.867.1485

CONTRACT # 2008-0524 Engineering, P.C.

REVISIONS

NO.	DESCRIPTION	DATE	BY
1	REV. PER CITY COMMENTS	6/30/08	TJ



LEGEND

- GAS — EXISTING GAS LINE
- W — W — EXISTING WATER LINE
- SS — SS — EXISTING SEWER LINE
- SS — SS — NEW PVC SDR-35 SEWER LINE
- GAS — NEW GAS LINE
- W — 8" — NEW DUCTILE IRON WATER LINE (SIZE AS NOTED)
- EXISTING ASPHALT
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED GRAVEL DRIVE
- EXISTING FIRE HYDRANT
- NEW FIRE HYDRANT
- NEW WATER METER PER CEDAR CITY STANDARD DETAIL W-2
- NEW GATE VALVE PER CEDAR CITY STANDARD DETAIL W-1
- EXISTING WATER VALVE
- EXISTING STREET LIGHT
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE

UTILITY NOTES

- EXISTING WATER LINE
- EXISTING 8"Ø PVC SDR-35 SEWER MAIN
- EXISTING SEWER MANHOLE
- EXISTING FIRE HYDRANT
- TIE INTO EXISTING GAS STUB
- NOT USED
- NEW GAS LINE CONNECTION TO BUILDING
- NEW 2"Ø WATER METER AND LATERAL PER CEDAR CITY DETAIL W-5, CONNECT TO EX. 8"Ø WATER LINE.
- NEW 6" SDR-35 SEWER LATERAL PER CITY DETAIL S-1, CONNECT TO EXISTING 8"Ø SEWER LINE.
- NEW SEWER CLEANOUT 5' OFF BUILDING
- NEW FIRE HYDRANT PER CEDAR CITY DETAIL W-2
- INSTALL (4) 4"Ø CONDUIT FROM FUTURE SOLAR PANEL LOCATION
- NEW BLACK VINYL CHAIN LINK FENCE
- NEW DUMPSTER ENCLOSURE PER DETAIL SHEET C7
- EXISTING GAS LINE
- EXISTING UNDERGROUND POWER
- NEW 8"Ø WATER MAIN
- NEW 8"Ø WATER VALVE
- NEW POWER & CABLE CONDUIT ENCASED IN CONCRETE
- RELOCATE EXISTING STOP SIGN
- STUB AND CAP FOR FUTURE USE
- 4"Ø CONDUIT FOR IRR. SYSTEM W/ BOXES EACH SIDE
- NEW SIGNAGE (SEE ARCH.)
- GRAVEL ACCESS LANE
- VEHICULAR GATE
- NEW ELECTRICAL TRANSFORMER

PUBLIC IMPROVEMENTS NOTE:

ALL PUBLIC IMPROVEMENTS IN 1275 WEST STREET AND 400 SOUTH STREET SHOWN ON THESE PLANS TO BE DONE BY OTHERS.

ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

REVISIONS

NO	DESCRIPTION	DATE	BY
1	REV. PER CITY COMMENTS	6/30/08	TS

InSite Engineering, P.C.
Civil Engineers - Land Surveyors - Land Planners
1883 W. Royal Harris Dr., Suite 200
Cedar City, Utah 84720
Phone: (435) 867-1455
Fax: (435) 867-1455

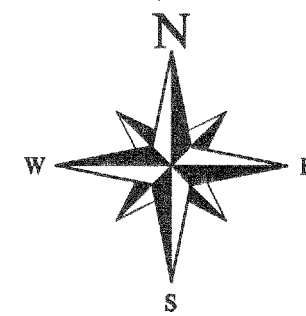
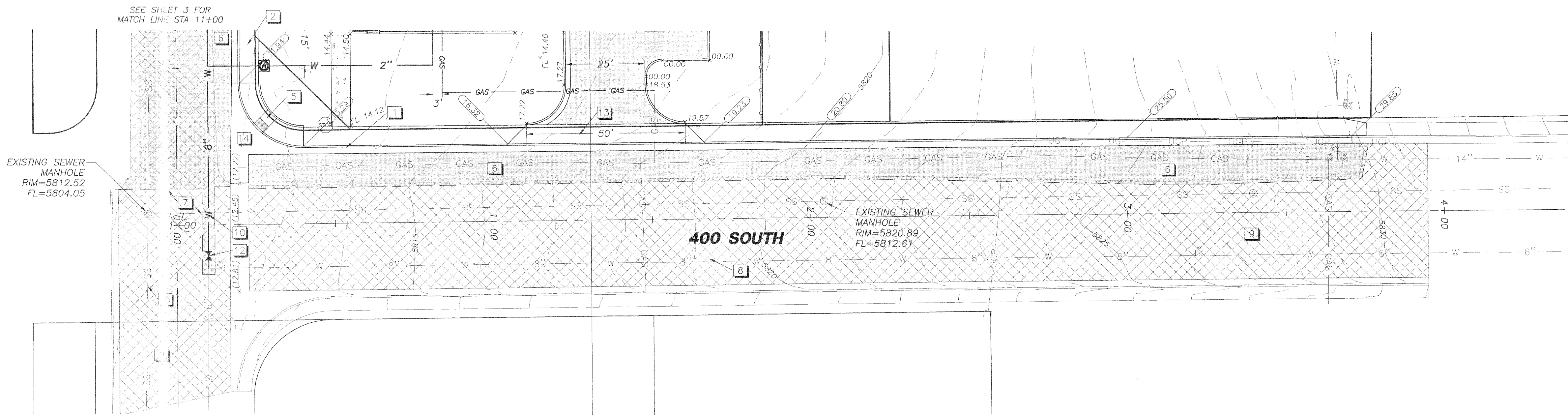
PROFESSIONAL ENGINEER
No. 188156
RONALD J. LARSEN
UTAH STATE

SITE UTILITY PLAN FOR:
SUU FACILITIES MANAGEMENT OFFICE
400 S. STREET & 1275 W. STREET
CEDAR CITY, UTAH 84720
LOCATED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15 RIW T36S 91E1

DATE: JUNE 23, 2008
SCALE: 1"=20'

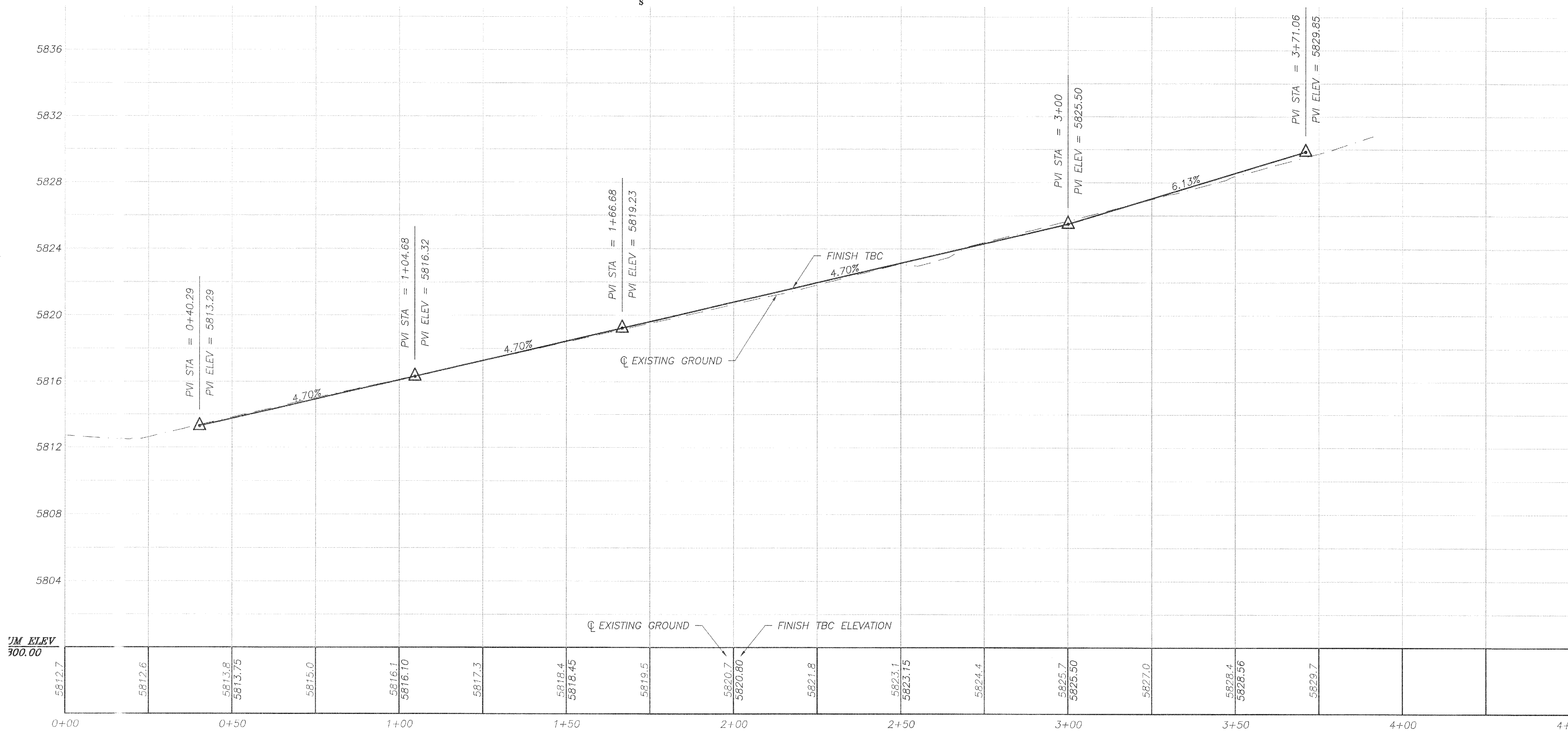
JOB NO.
2750C

SHEET NO.
C3



PLAN VIEW FOR 400 SOUTH STREET

SCALE: 1"=20'



PROFILE FOR 400 SOUTH STREET

HORIZONTAL SCALE: 1"=20' VERTICAL SCALE 1"=4'

PROJECT LEGEND

- SS NEW SEWER LINE (PVC-SDR-35)
- W NEW WATER LINE (DUCTILE IRON)
- SS EXISTING SANITARY SEWER
- W EXISTING WATER LINE
- NEW 4" SEWER LATERAL PER STD. DWG. S1
- NEW 1" WATER LATERAL & METER PER STD. DWG. W2
- NEW STOP SIGN PER CC STD DWG R9
- NEW STREET SIGN PER C.C. STD. DWG. R7.
- TBC ELEVATION
- EXISTING ASPHALT PAVING
- NEW ASPHALT PAVING
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- NEW FIRE HYDRANT PER C.C. STD. DWG. W2.
- EXISTING FIRE HYDRANT
- NEW GATE VALVE
- EXISTING WATER VALVE
- NEW CENTERLINE MONUMENT PER C.C. STD. DWG. R7.
- SECTION CORNER AS DESCRIBED
- HANDICAP RAMP PER CEDAR CITY DTL. C5
- DRAINAGE FLOW ARROW
- NEW CONCRETE

CONSTRUCTION NOTES

- NEW 30" CURB AND GUTTER PER DETAIL
- NEW 6' SIDEWALK PER DETAIL
- NEW 2" WATER SERVICE PER CEDAR CITY DETAIL TYP.
- NEW 6" PVC SDR-35 SEWER LATERAL PER CEDAR CITY DETAIL TYP.
- NEW HANDICAP RAMP PER DETAIL C5
- NEW ASPHALT PAVEMENT IN ROADWAY (SEE NOTE THIS PAGE)
- SAW CUT AND REMOVE EDGE OF EXISTING ASPHALT.
- EXISTING WATER LINE TO REMAIN
- EXISTING ASPHALT PAVING TO REMAIN
- NEW 8" CLASS 50 DUCTILE IRON WATERLINE
- NEW FIRE HYDRANT (PER CITY DETAIL)
- NEW 8" GATE VALVE
- COMMERCIAL DRIVEWAY PER CITY DETAIL
- EXTEND EXISTING CROSS GUTTER PER CITY DETAIL
- EXISTING SEWER TO REMAIN
- STUB & CAP EXISTING 8" WATER LINE
- EXISTING ASPHALT TO BE REMOVED

PUBLIC IMPROVEMENTS NOTE:

ALL PUBLIC IMPROVEMENTS IN 1275 WEST STREET AND 400 SOUTH STREET SHOWN ON THESE PLANS TO BE DONE BY OTHERS.

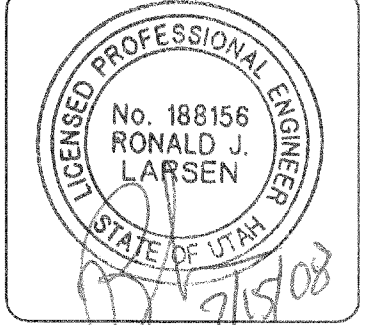
PUBLIC STREET DESIGN

1275 WEST 3.5" ASPHALT OVER 6" ROAD BASE OVER 12" COMPACTED SUBGRADE
400 SOUTH 3" ASPHALT OVER 8" ROAD BASE OVER 12" COMPACTED SUBGRADE

ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

REVISIONS		DATE	BY
NO	DESCRIPTION		
1	REV. PER CITY COMMENTS	6/30/08	TB

InSite Engineering, P.C.
Civil Engineers - Land Surveyors - Land Planners
1803 W. Royal Heritage Dr., Suite 200
Cedar City, Utah 84720
Phone: (435) 867-1465
Fax: (435) 867-1465

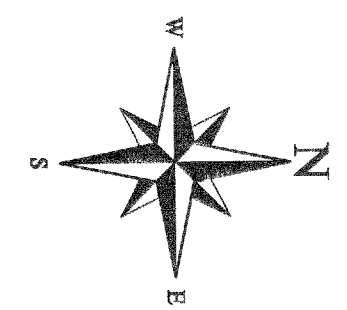
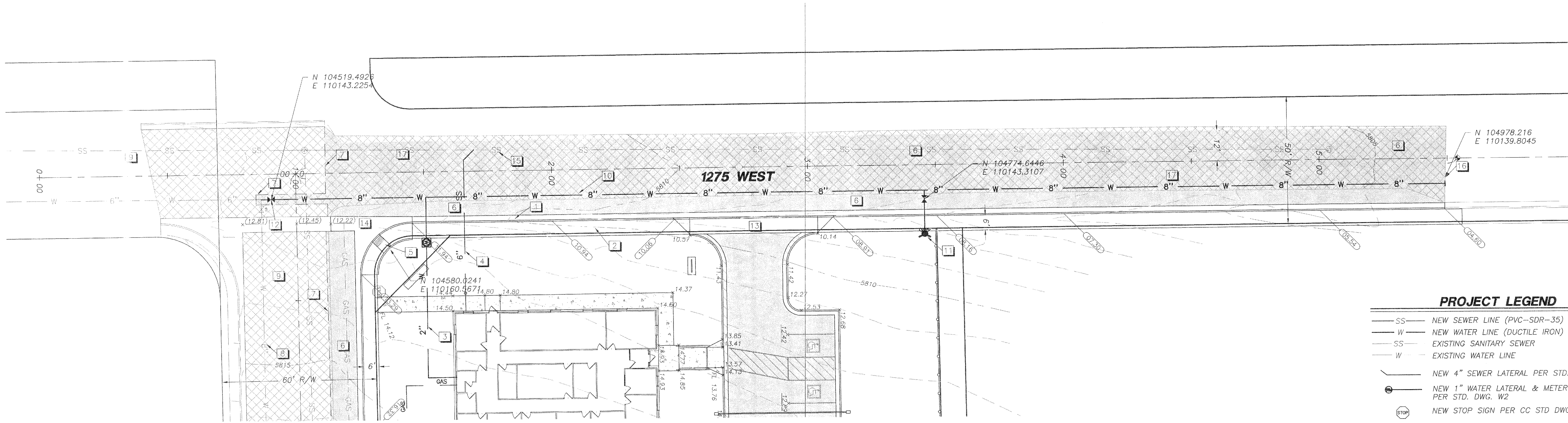


PLAN & PROFILE OF:
400 SOUTH STREET
400 S. STREET & 1275 W. STREET
CEDAR CITY, UTAH 84720
LOCATED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15 T36S R9E1

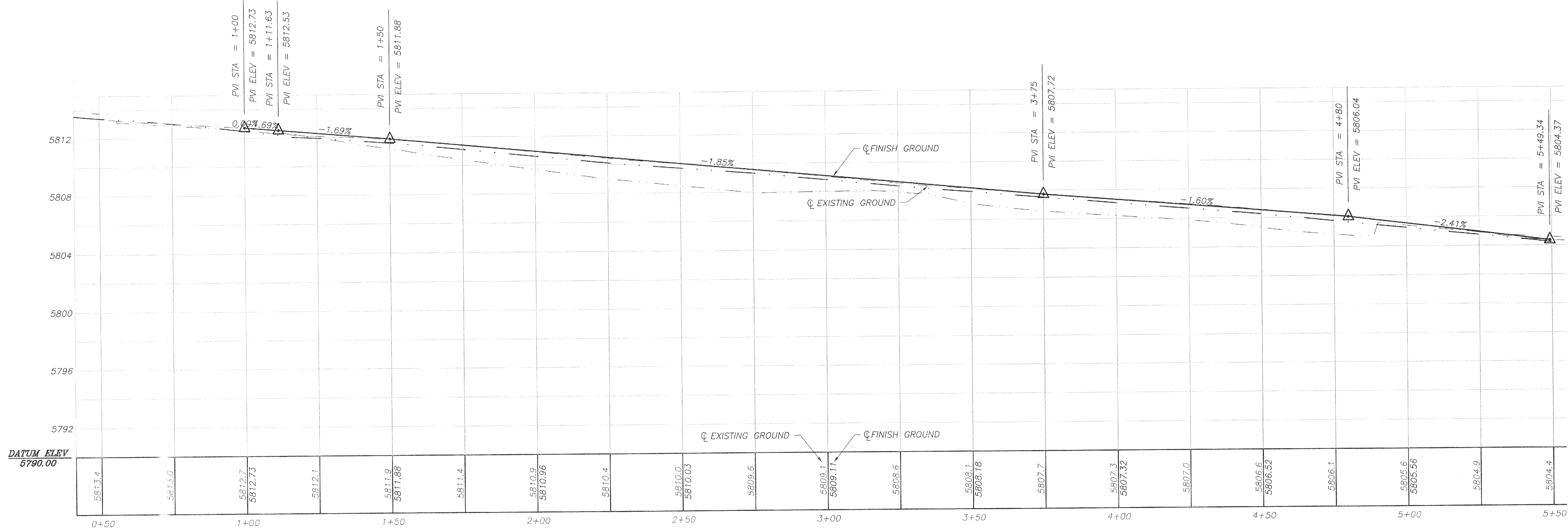
DATE: JUNE 23, 2008
SCALE: 1"=20'

JOB NO.
2750C

SHEET NO.
C4



PLAN VIEW FOR 1275 WEST STREET
SCALE: 1"=20'



PROFILE FOR 1275 WEST STREET

HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'

PUBLIC STREET DESIGN

1275 WEST 3.5" ASPHALT OVER 6" ROAD BASE OVER
12" COMPACTED SUBGRADE
400 SOUTH 3" ASPHALT OVER 8" ROAD BASE OVER
12" COMPACTED SUBGRADE

PROJECT LEGEND

- SS NEW SEWER LINE (PVC-SDR-35)
- W NEW WATER LINE (DUCTILE IRON)
- SS EXISTING SANITARY SEWER
- W EXISTING WATER LINE
- NEW 4" SEWER LATERAL PER STD. DWG. S1
- NEW 1" WATER LATERAL & METER PER STD. DWG. W2
- NEW STOP SIGN PER CC STD DWG R9
- NEW STREET SIGN PER C.C. STD. DWG. R7
- TBC ELEVATION
- EXISTING ASPHALT PAVING
- NEW ASPHALT PAVING
- EXISTING SEWER MANHOLE
- NEW SEWER MANHOLE
- NEW FIRE HYDRANT PER C.C. STD. DWG. W2
- EXISTING FIRE HYDRANT
- NEW GATE VALVE
- EXISTING WATER VALVE
- NEW CENTERLINE MONUMENT PER C.C. STD. DWG. R7
- SECTION CORNER AS DESCRIBED
- HANDICAP RAMP PER CEDAR CITY DTL. C5
- DRAINAGE FLOW ARROW
- NEW CONCRETE

PUBLIC IMPROVEMENTS NOTE:

ALL PUBLIC IMPROVEMENTS IN 1275 WEST STREET AND 400 SOUTH STREET SHOWN ON THESE PLANS TO BE DONE BY OTHERS.

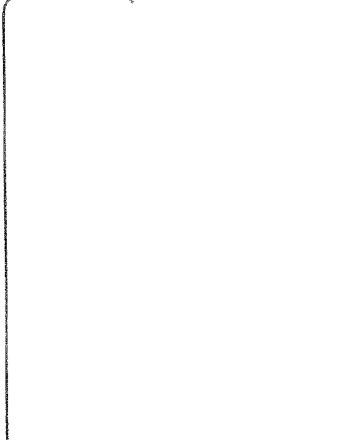
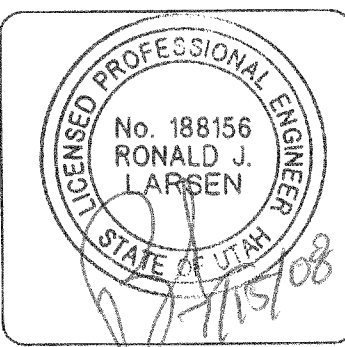
CONSTRUCTION NOTES

- NEW 30" CURB AND GUTTER PER DETAIL
- NEW 6' SIDEWALK PER DETAIL
- NEW 2" WATER SERVICE PER CEDAR CITY DETAIL TYP.
- NEW 6" PVC SDR-35 SEWER LATERAL PER CEDAR CITY DETAIL TYP.
- NEW HANDICAP RAMP PER DETAIL C5 (SEE NOTE THIS PAGE)
- NEW ASPHALT PAVEMENT IN ROADWAY
- SAW CUT AND REMOVE EDGE OF EXISTING ASPHALT.
- EXISTING WATER LINE TO REMAIN
- EXISTING ASPHALT PAVING TO REMAIN
- NEW 8" CLASS 50 DUCTILE IRON WATERLINE
- NEW FIRE HYDRANT (PER CITY DETAIL)
- NEW 8" GATE VALVE
- COMMERCIAL DRIVEWAY PER CITY DETAIL
- EXTEND EXISTING CROSS GUTTER PER CITY DETAIL
- EXISTING SEWER TO REMAIN
- STUB & CAP EXISTING 8" WATER LINE
- EXISTING ASPHALT TO BE REMOVED

ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

REVISIONS			
NO	DESCRIPTION	DATE	BY
1	REV. PER CITY COMMENTS	6/30/08	TS

InSite Engineering, P.C.
Civil Engineers - Land Surveyors - Land Planners
1883 W. Regal Hunt Dr., Suite 200
Cedar City, Utah 84720
Phone: (435) 867-4565
Fax: (435) 867-4569

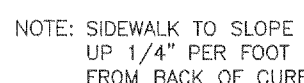


PLAN & PROFILE OF:
1275 WEST STREET
400 S. STREET & 1275 W. STREET
CEDAR CITY, UTAH 84720
LOCATED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15 T36S R5E1W

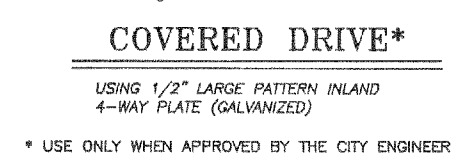
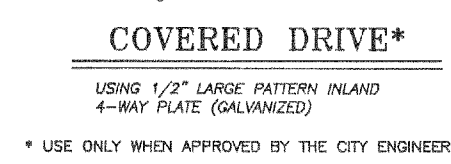
DATE: JUNE 23, 2008
SCALE: 1"=20'

JOB NO.
27500

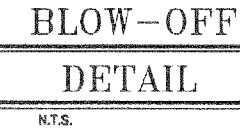
SHEET NO.
C5



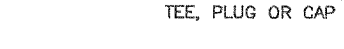
TES:
3/4" LATERAL ALLOWED ONLY BY APPROVAL OF
THE CITY ENGINEER
ON TWIN HOME LOTS THE WATER METERS
SHALL BE TIED OFF A COMMON 1-1/2" MIN.
LATERAL COMING FROM THE MAIN AND PLACED
ON EACH SIDE THE LOT DIVIDING LINE
ACCORDING TO THE LAYOUT OF THE HOMES.



NOTE:
ALL CURB AND GUTTER
TYPES SHALL HAVE
WEAKENED PLANE
JOINTS EVERY 10'
O.C. 1/2" DEEP.



NOTE:



GENERAL NOTES:

1. ALL FITTINGS & EXPOSED REBAR TO BE WRAPPED W/ TWO LAYERS OF 6 MIL. POLYETHYLENE WHEN COVERED WITH CONCRETE.
2. ALL CONCRETE SHALL BE CLASS C 3000 P.S.I. MINIMUM 28 DAYS COMPRESSIVE STRENGTH.
3. PLACE CONCRETE AGAINST UNDISTURBED EARTH.
4. THICK. DENOTES MINIMUM BEARING AREA OR VOLUME OF TURBID BULK. SPECIAL DESIGN FOR EACH INSTALLATION IS REQUIRED. P.F. ALL TYPES OF SOIL BEARING CAPACITY IS LESS THAN 3000 P.S.F.
5. VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.
6. KEEP CONCRETE AWAY FROM FLANGE BOLTS AND FITTINGS.

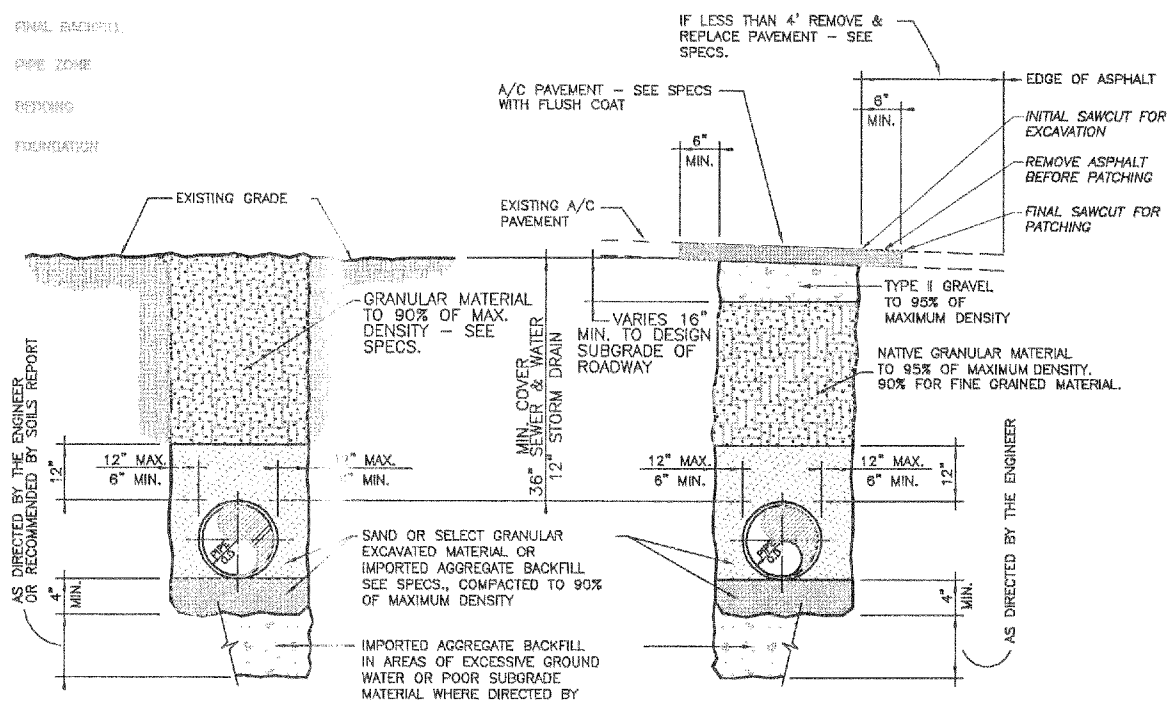
PIPE I.D.	RADIUM AREA SQUARE FEET				VOLUME OF CONC. CUBIC YD.			
	FIGURE 2	FIGURE 3	FIGURE 4	FIGURE 5	FIGURE 6	FIGURE 7	FIGURE 8	FIGURE 9
4"	2	2	80 1/4	22-1/2	11-1/4	45'	22-1/2	11-1/4
6"	2	4	160 1/2	44-1/2	22-1/2	1	1.0	5
8"	2	6	240 3/4	66 3/4	33 3/4	1	1.0	5
10"	3	7	315 1/2	88 1/2	44 1/4	1	2.0	1.0
12"	3	10	420 1/2	110 1/2	55 1/4	2	5.0	2.0
14"	4	14	560 1/2	154 1/2	77 1/4	3	7.0	3.0
16"	4	18	720 1/2	201 1/2	100 1/4	4	9.0	4.0
18"	5	24	960 1/2	264 1/2	132 1/4	5	11.0	5.0
20"	5	28	1120 1/2	308 1/2	154 1/4	6	13.0	6.0

PROJECT: 2

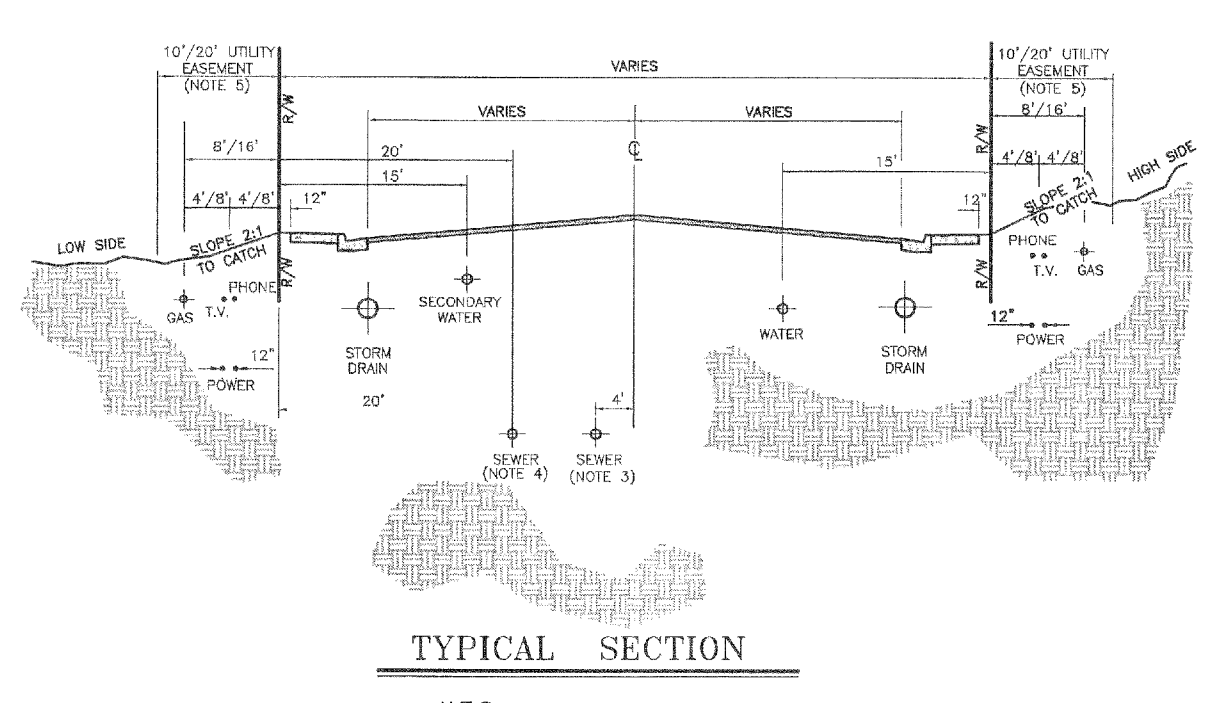
SHEET NO:

C6

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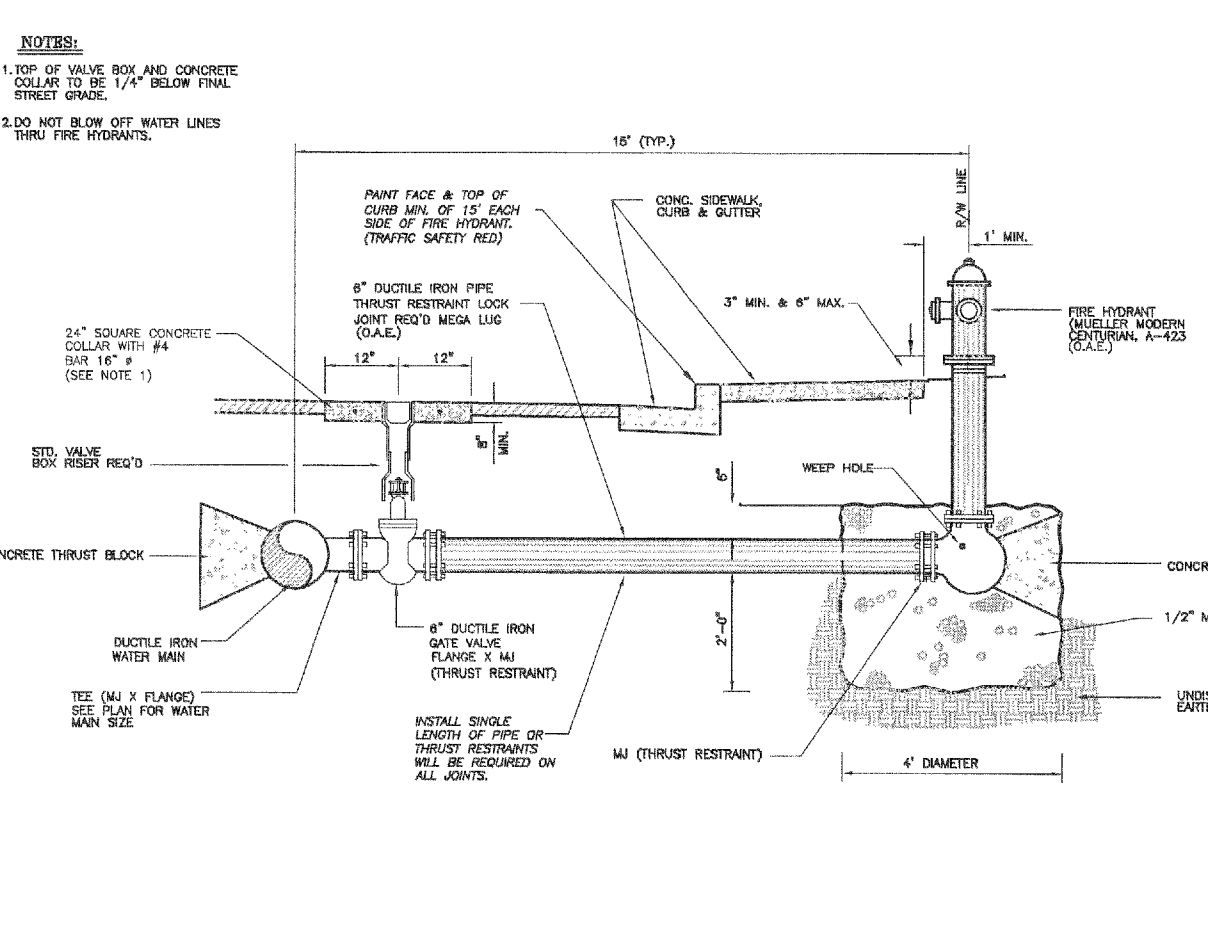


TYPICAL TRENCH DETAILS



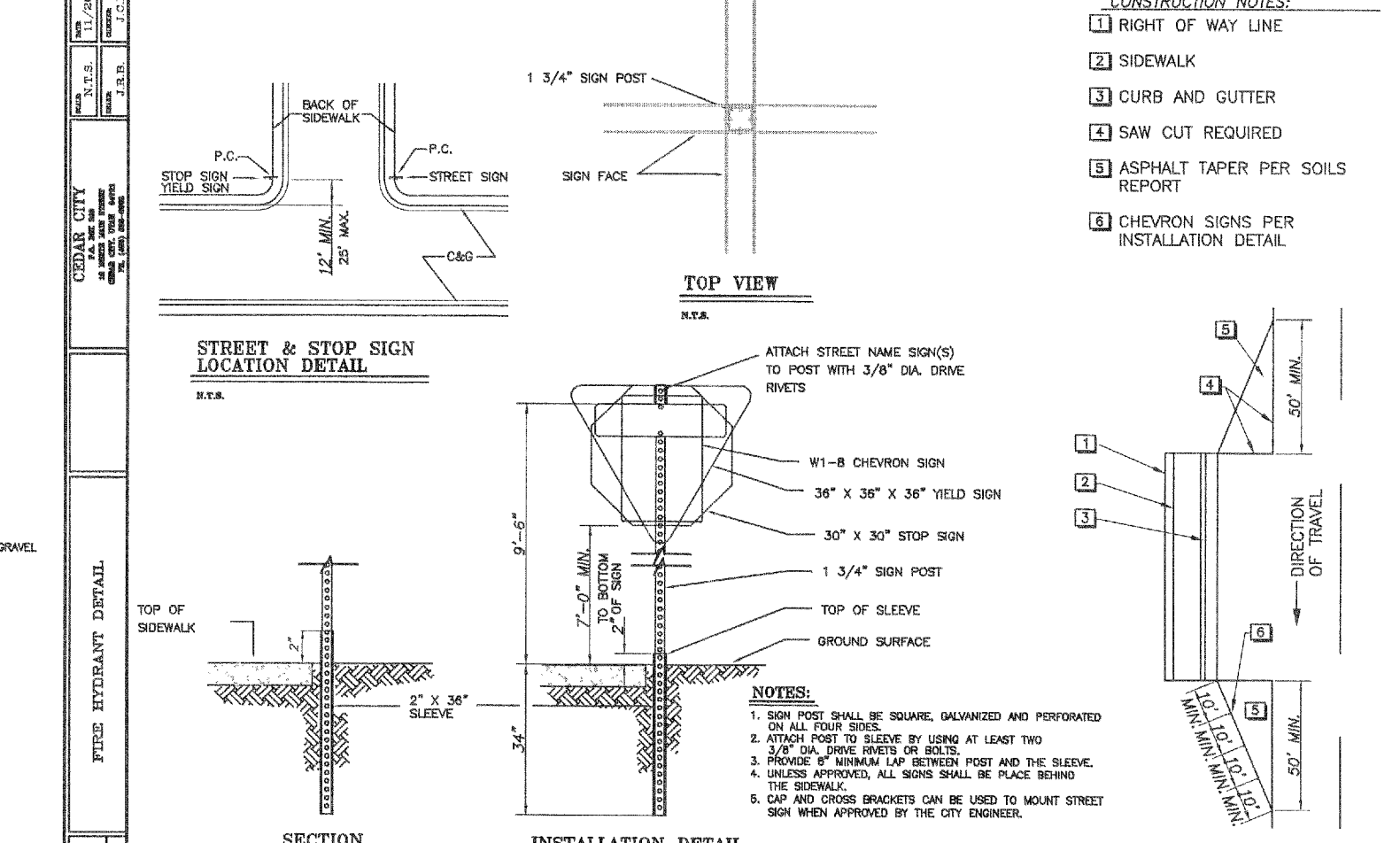
TYPICAL SECTION

MINIMUM DEPTHS	
WATER	36"
TELEPHONE	30"
POWER	40"
GAS	40"
SEW. WATER	24"
SEW. SEWER	24"
STORM DRAIN	24"
TELEVISION	30"

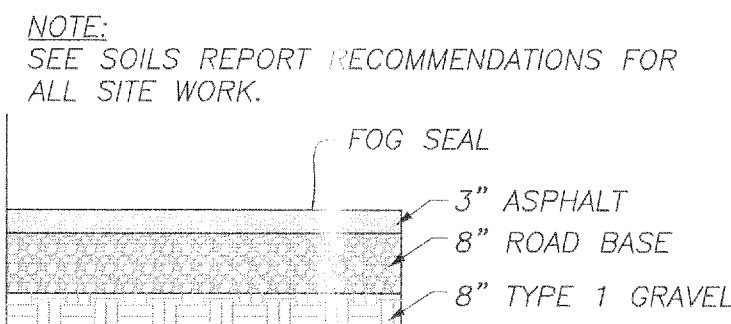


HANDRAIL DETAIL

NOTES:
-HANDRAIL HEIGHT TO BE BETWEEN 34" AND 38"
-HANDRAIL DIAMETER TO BE 1.5" TO 2"

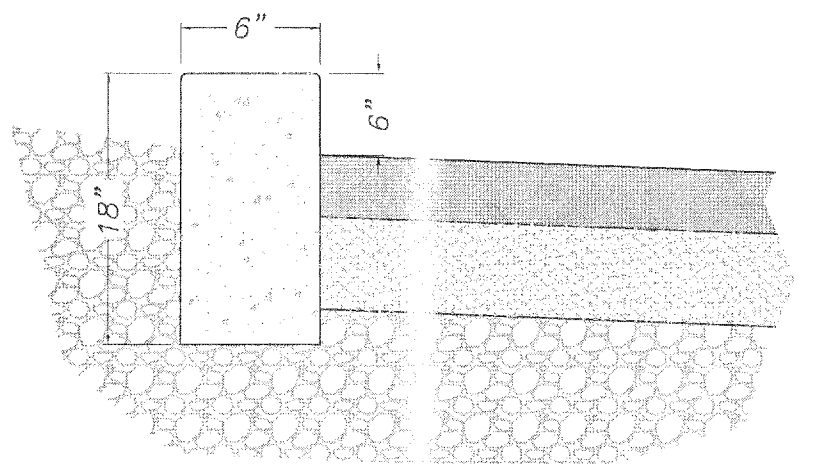


ASPHALT TAPER DETAIL



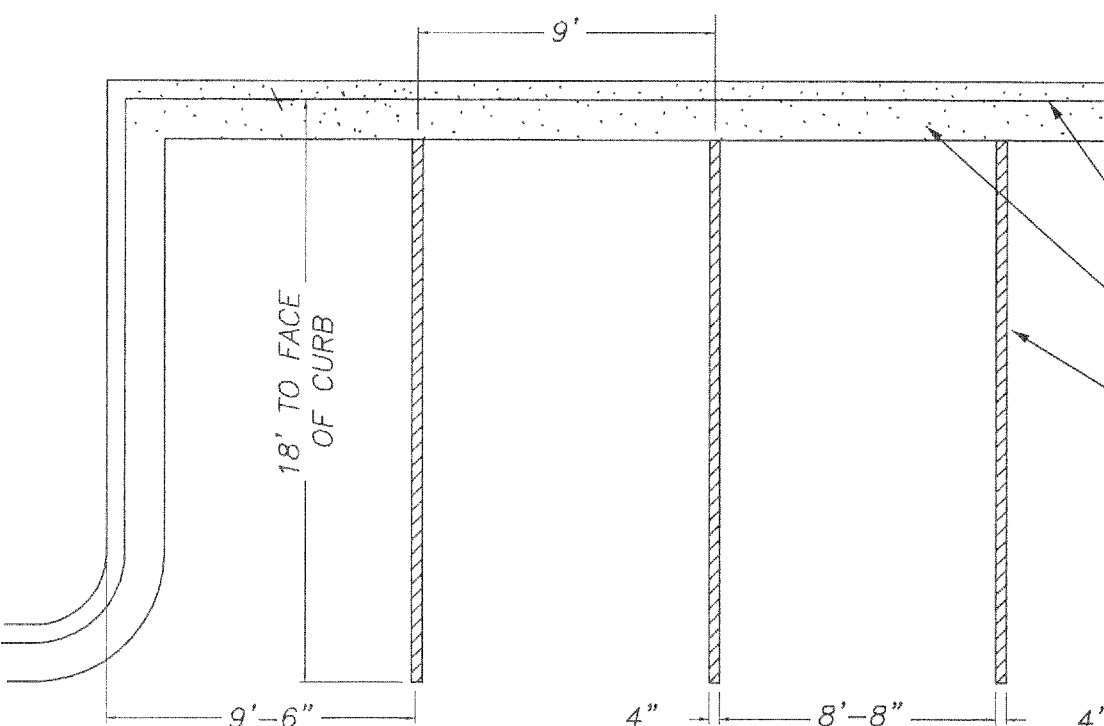
ASPHALT SECTION

N.T.S.



6" CURB DETAIL

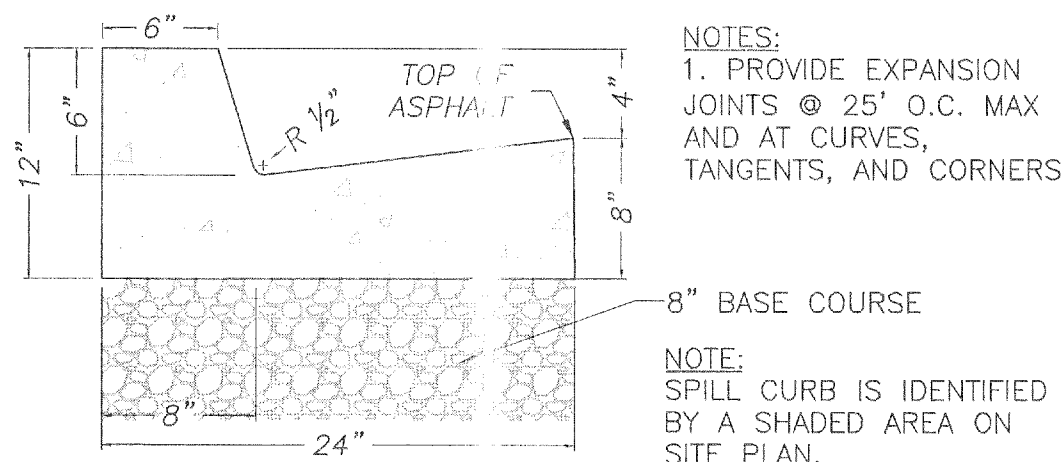
N.T.S.



4" STEEL INLET PIPE DETAIL

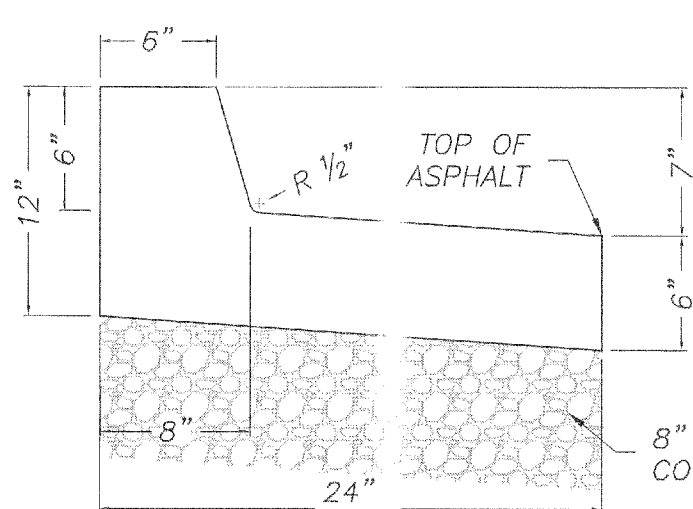
N.T.S.

NOTES:
ALL EXPOSED METAL PARTS SHALL BE A-36 GALVANIZED STEEL AND ALL GALVANIZING DAMAGED BY FABRICATION OR INSTALLATION SHALL RECEIVE TWO COATS OF ALUMINUM PAINT (GALVONOX OR EQUAL)



L-TYPE 24" FLOW CURB

N.T.S.



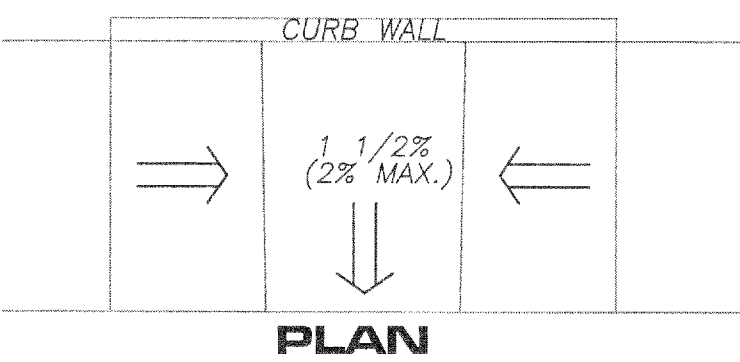
L-TYPE 24" SPILL CURB

N.T.S.

PARKING STALLS

N.T.S.

NOTES:
1-A CURB RAMP(S) MUST BE PROVIDED ALONG AN ACCESSIBLE PATH FROM THE PARKING LOT TO CURBED SIDEWALK.
2-A RAMP IS ANY SLOPE GREATER THAN 1:20 (5%). AND SHALL HAVE A MAX. SLOPE OF 1:12 (8.33%). THE MAX. SLOPE IS 1" OF RISE PER FOOT OF DISTANCE TRAVELED. ALL DETECTABLE WARNING AREAS OF THE RAMP ARE TO HAVE A RED COLOR.
3-THE MIN. WIDTH OF ANY RAMP IS 36".

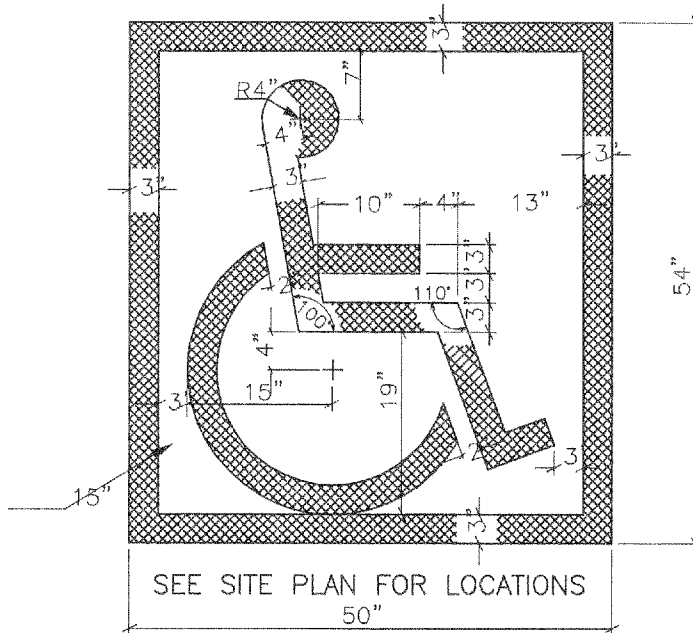


ELEVATION

*SLOPE < 5% = WALK (NOT RAMP).

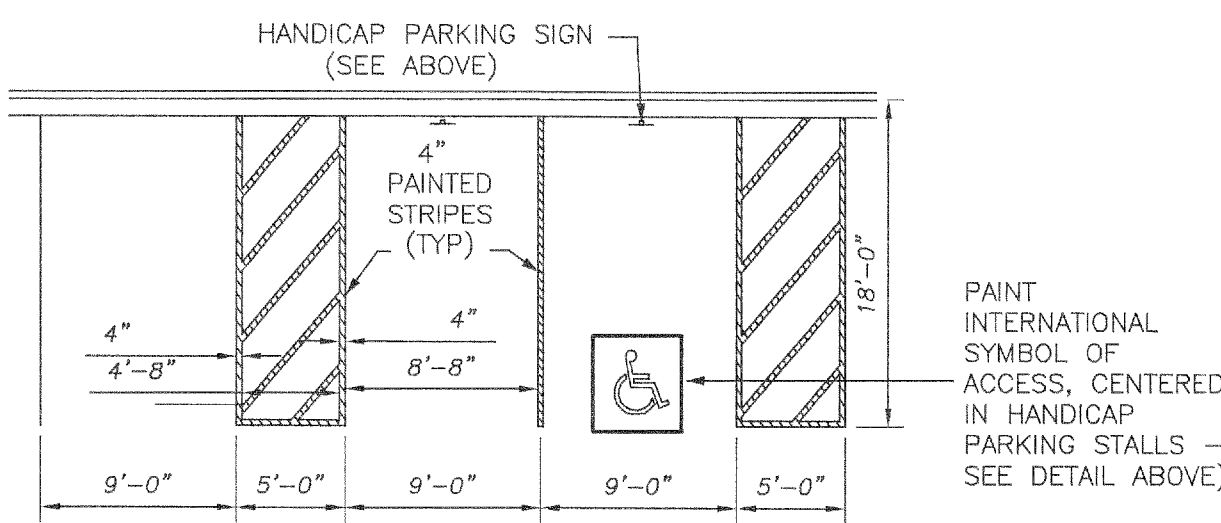
INLINE RAMP DETAIL

N.T.S.



TYPICAL HANDICAP STALLS

N.T.S.



CEDAR CITY TESTING REQUIREMENTS			
DESCRIPTION	TEST / QUANTITY	QUANTITY	TESTS REQ'D
ROAD EMBANKMENT DENSITY TESTS	1/500 C.Y.	-	-
ROAD SUBGRADE DENSITY TESTS	1/1,000 S.Y.	360 S.Y.	1SETS
TRENCH DENSITY TESTS			
STORM DRAINS / CULVERTS	2/200 L.F. OF TRENCH	-	-
STORM DRAIN MANHOLES / INLET BOX	2/MANHOLE OR BOX	-	-
IRRIGATION LINE	2/200 L.F. OF TRENCH	-	-
WATER LINE (INCLUDES F. H. & SERVICE LATERALS)	2/200 L.F. OF TRENCH	475 L.F.	3 SETS
SEWER LINE (INCLUDE SERVICE LATERALS)	5/200 L.F. OF TRENCH	53 L.F.	1 SETS
SEWER MANHOLE	5/EACH MANHOLE	-	- SETS
VALVES	2/VALVE OR VALVE SET	2	2 SETS
UTILITY CONDUITS	2/200 L.F. OF TRENCH	-	-
ROAD BASE COURSE DENSITY TESTS	1/7,000 S.F.	16,906 S.F.	3 SETS
ROAD BASE THICKNESS TESTS	1/5,000 S.F.	16,906 S.F.	4 SETS
CURB/GUTTER BASE DENSITY TESTS	1/300 L.F.	772 L.F.	3 SETS
SIDEWALK BASE DENSITY TESTS	1/300 L.F.	772 L.F.	3 SETS
ASPHALT EXTRACTION TESTS	1/500 TONS OR 1 PER DAY WHICHEVER IS LESS	1 DAY	1 SET
ASPHALT DENSITY TESTS	1/7,000 S.F.	16,906 S.F.	3 SETS
ASPHALT THICKNESS TESTS	1/10,000 S.F.	16,906 S.F.	2 SETS
CONCRETE CYLINDER BREAKS	3/50 C.Y.	40 C.Y.	2 SETS
CONCRETE AIR ENTRAINMENT	2 CONSECUTIVE PASSING TESTS/LOAD	2 LOADS	2 SETS
CONCRETE SLUMP TESTS	2 CONSECUTIVE PASSING TESTS/LOAD	4 LOADS	4 SETS
ROAD BASE GRADATION TEST	1/15,000 S.F.	16,906 S.F.	2 SETS
CURB & GUTTER BASE COURSE GRAD.	1/2,000 L.F.	772 L.F.	1 SET
CURB & GUTTER THICKNESS TEST	1/200 L.F.	772 L.F.	4 SETS
SIDEWALK THICKNESS TEST	1/200 L.F.	772 L.F.	4 SETS

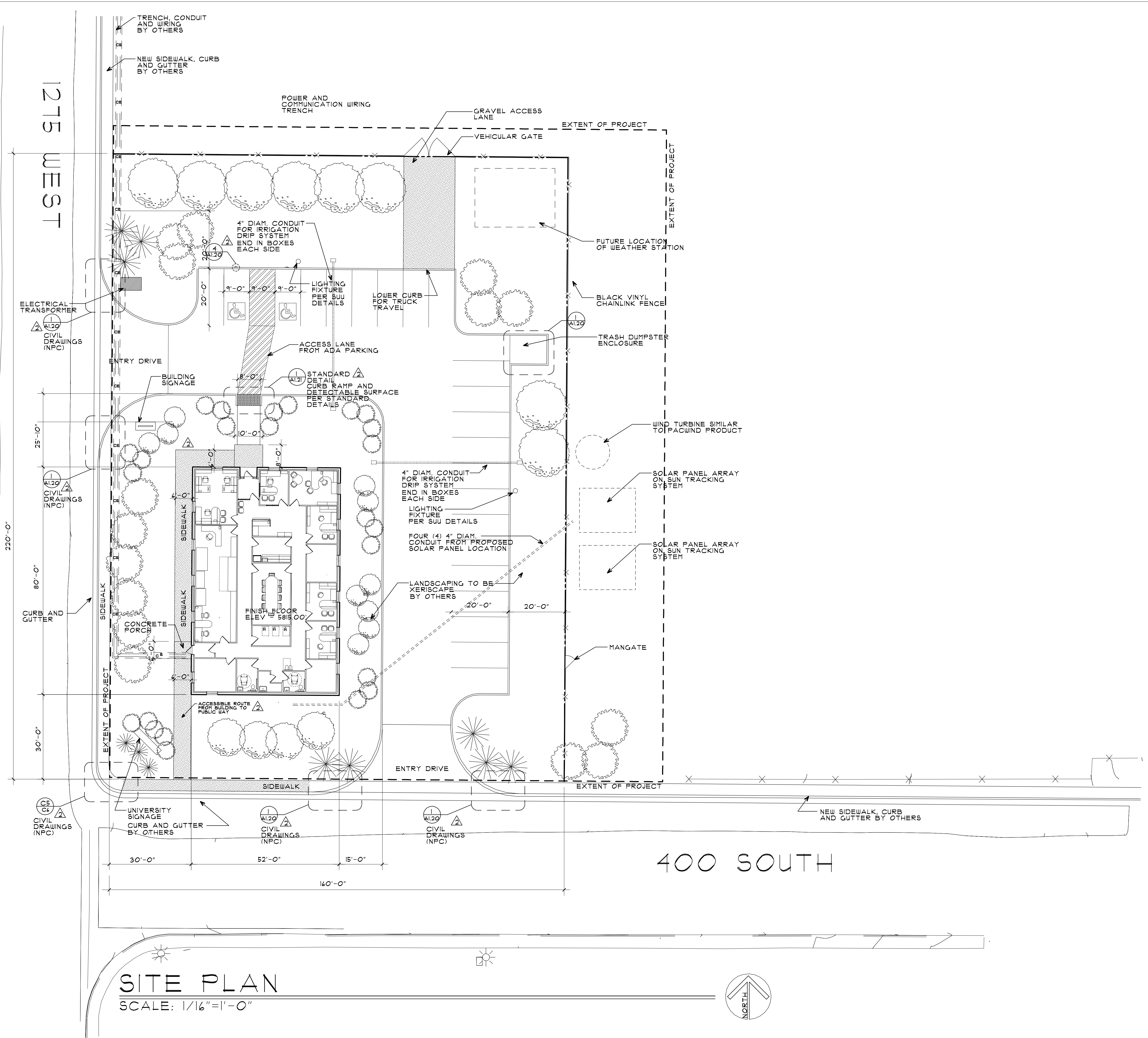
InSite Engineering, P.C.
Civil Engineers - Land Surveyors - Land Planners
1803 W. Royal Home Dr., Suite 200
Cedar City, Utah 84720
Phone: (435) 867-4865
Fax: (435) 867-4495

LICENSED PROFESSIONAL ENGINEER
No. 188156
RONALD J. LARSEN
STATE OF UTAH
1/15/08

DETAILS FOR:
SUU FACILITIES MANAGEMENT OFFICE
400 S. STREET & 12TH W. STREET
CEDAR CITY, UTAH 84720
LOCATED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15 RIW T36S S15E

DATE: JUNE 23, 2008
SCALE: 1"=20'
JOB NO.
2750C
SHEET NO.
C7

PROJECT: 2750C - SUU FAC. MGMT. OFFICE CIVIL/SITE PLANNING



SITE PLAN
SCALE: 1/16"=1'-0"

GENERAL NOTES

1. SIDEWALK, CURB AND GUTTER ALONG 400 SOUTH AND 1215 WEST BY OTHERS.

2. PARKING LOT STRIPING BY SUU.

3. SIDEWALK, CURB AND GUTTER TO BE CONSTRUCTED PER CEDAR CITY STANDARDS.

4. ALL WORK TO COMPLY WITH APPLICABLE GOVERNING STANDARDS.

5. THE BUILDING FOUNDATION SHALL EXTEND 8" ABOVE ADJOINING GRADE.

6. FINISH GRADE AROUND THE BUILDING SHALL SLOPE AWAY FROM THE BUILDING FOUNDATION AT MINIMUM OF 2%.

7. LANDSCAPING BY SUU.

8. --- INDICATES EXTENT OF PROJECT.

9. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION CONCERNING SITE DESIGN.

10. INDICATES ACCESSIBLE WAY TO PUBLIC ACCESS.

SARGENT DESIGN GROUP

ARCHITECTURE | PLANNING

2390 WEST HIGHWAY 56
SUITE 4A
CEDAR CITY, UTAH 84720
OFFICE: (435) 586-8510
FAX: (435) 586-4873

State of Utah-Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

410 State Office Building/Salt Lake City, Utah 84143/308-3018

Project:

SUU FACILITIES
SALTCITY
SILVERDALE
OFFICE

Sheet Title:

SITE PLAN

Revisions:

CODE REVIEW 06.30.08

CODE REVIEW 07.09.08

PROJECT NUMBER: 07483

DATE: 05.30.08

DRAWN BY: J.C.S.

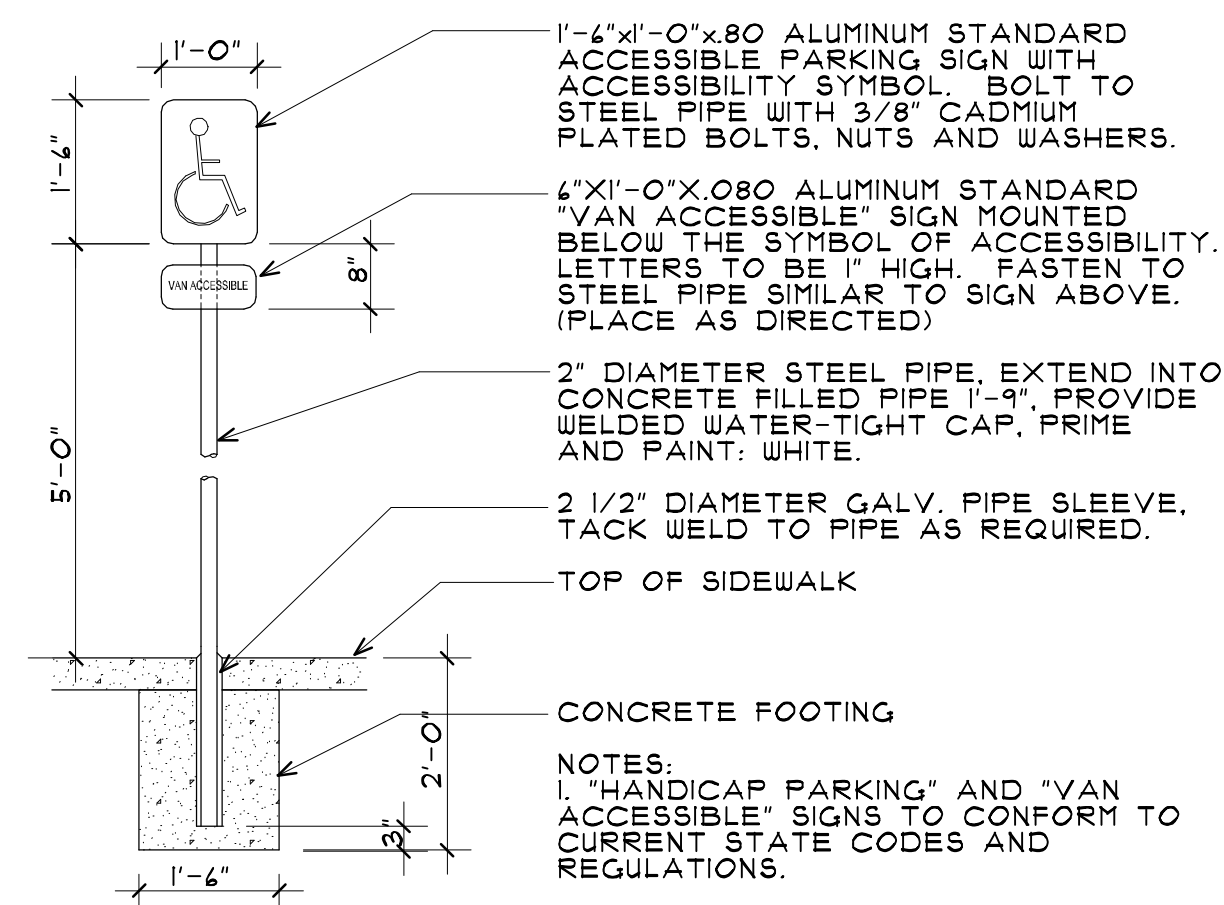
CHECKED BY: J.C.S.

APPROVED BY: J.C.S.

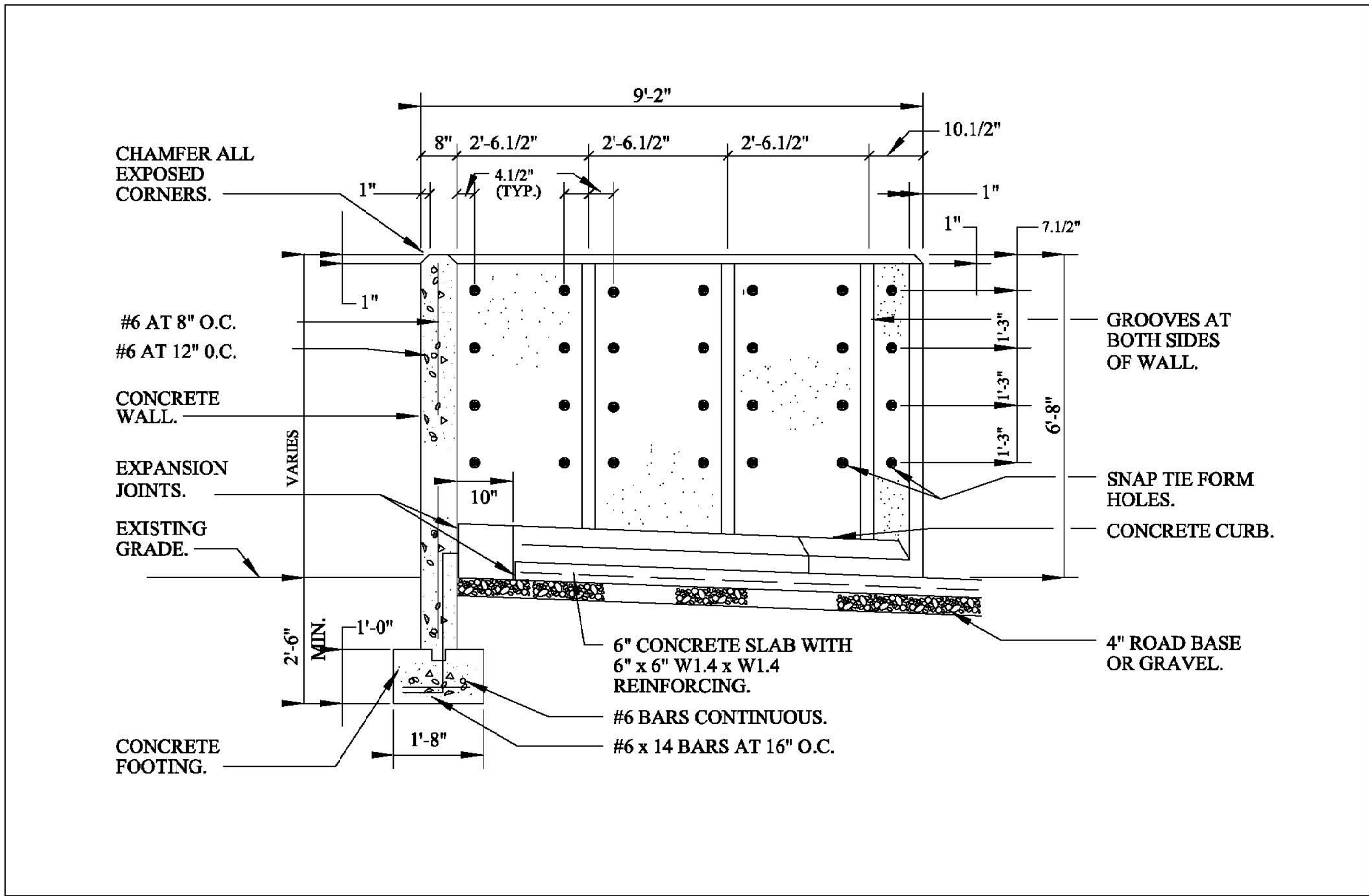
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SHEET NUMBER:

Sheet of

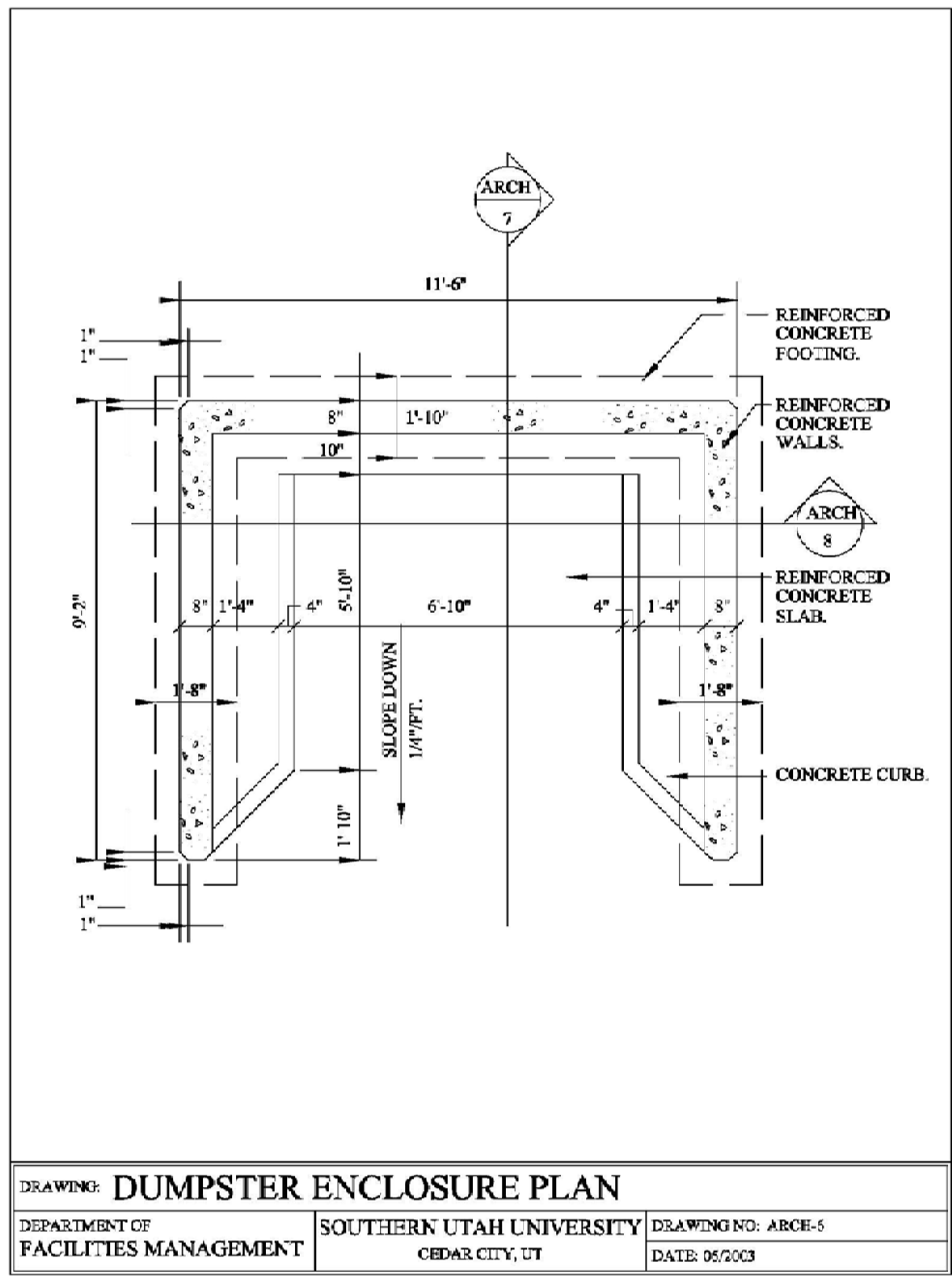


4 ADA SIGNAGE
NOT TO SCALE

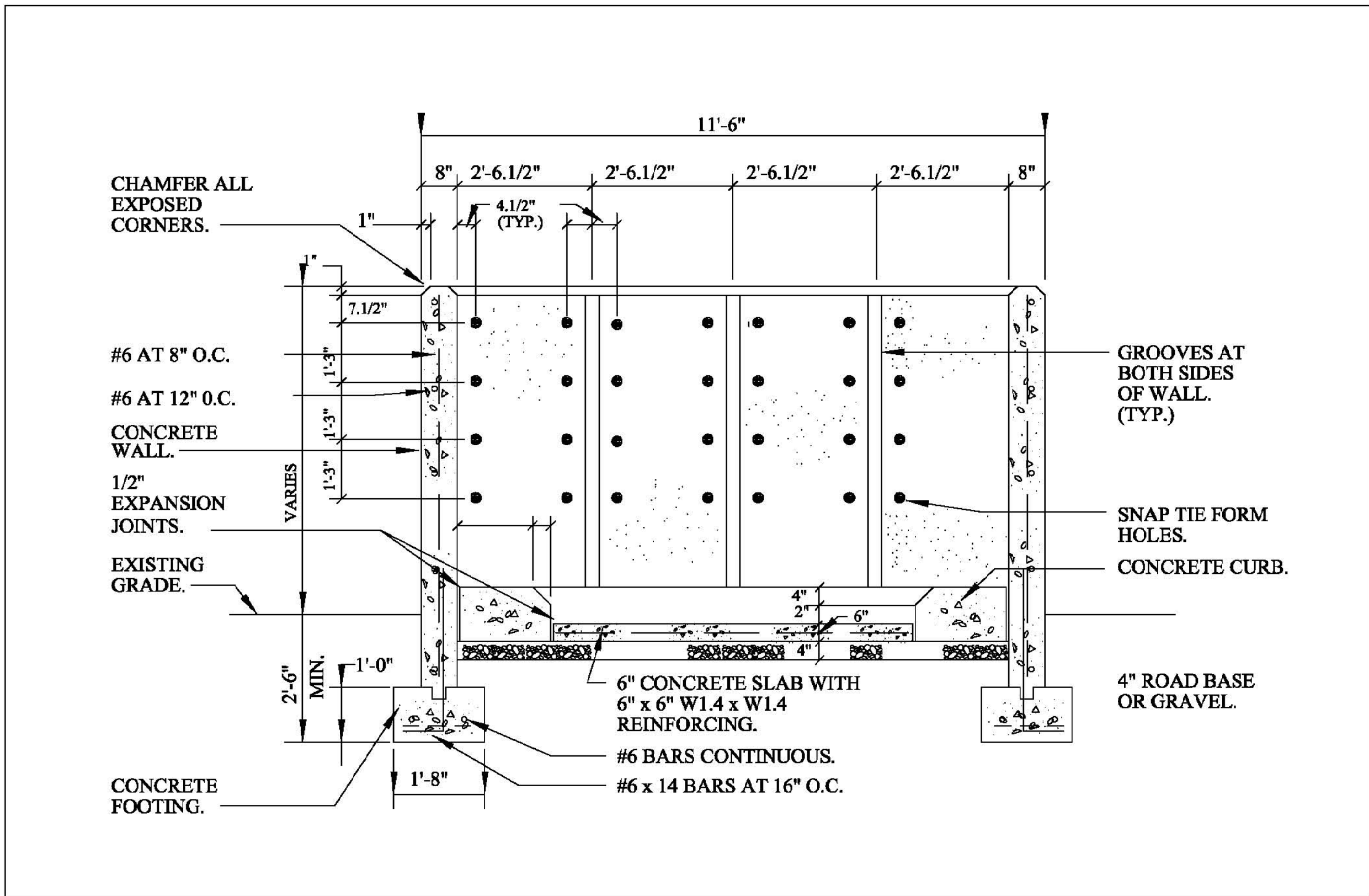


DRAWING: DUMPSTER ENCLOSURE SECTION
DEPARTMENT OF FACILITIES MANAGEMENT SOUTHERN UTAH UNIVERSITY CEDAR CITY, UT DRAWING NO: ARCH-7 DATE: 05/2003

2 DUMPSTER ENCLOSURE SECTION
NOT TO SCALE



1 DUMPSTER ENCLOSURE
NOT TO SCALE



DRAWING: DUMPSTER ENCLOSURE SECTION
DEPARTMENT OF FACILITIES MANAGEMENT SOUTHERN UTAH UNIVERSITY CEDAR CITY, UT DRAWING NO: ARCH-8 DATE: 05/2003

3 DUMPSTER ENCLOSURE SECTION
NOT TO SCALE

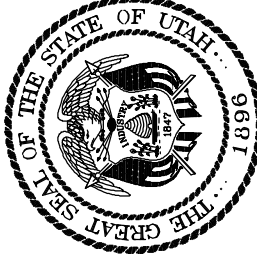
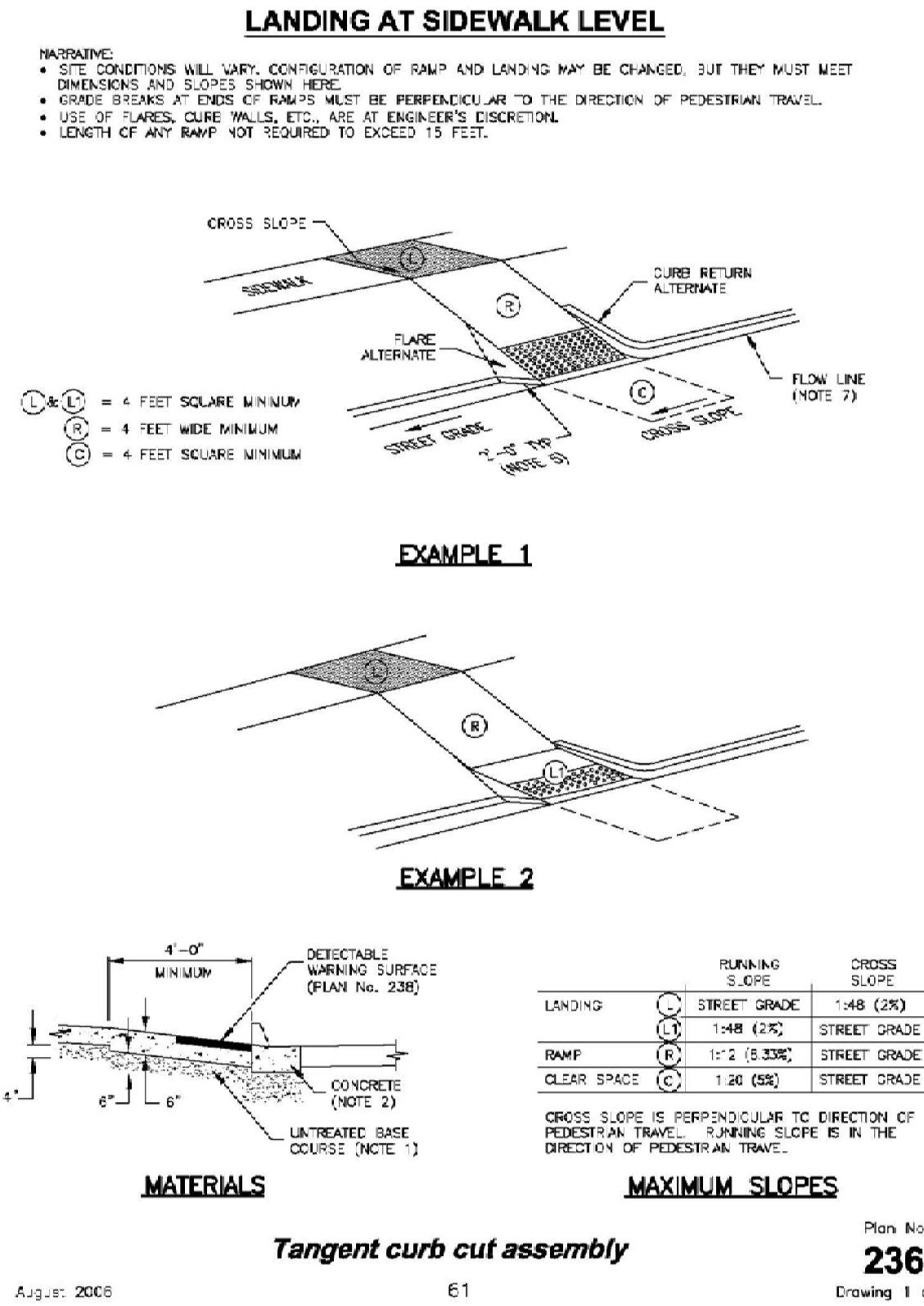
- Tangent curb cut assembly**
- UNTREATED BASE COURSE: Provide material specified in APWA Section 32.11.25.
 - Do not use gravel as a substitute for untreated base course without ENGINEER's permission.
 - Place material per APWA Section 52.05.10.
 - Compact per APWA Section 31.25.26 to a modified proctor density of 95 percent or greater. Maximum lift thickness before compaction is 8 inches when using ricing compaction equipment or 6 inches when using hand held compaction equipment.
 - CONCRETE: Class 4000 per APWA Section 03.30.04.
 - If necessary, provide concrete that achieves design strength in less than 7 days. Caution, concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
 - Place concrete per APWA Section 03.50.10.
 - Provide 1/2 inch radius on concrete edges exposed to public view.
 - Cure concrete per APWA Section 03.36.03 with type I/D Class A or B (clear with fugitive dye) membrane forming compound unless specified otherwise.
 - EXPANSION JOINT: Make expansion joints vertical.
 - Full depth 1/2 inch thick type F1 joint filler material per APWA Section 32.13.73. Set top of filler flush with surface of concrete.
 - CONTRACTION JOINT: Make contraction joints vertical.
 - 1/8 inch wide and 1 inch deep or 1/4 slab thickness if slab is greater than 4 inches thick.
 - Maximum length to width ratio for non-square panels is 1.5 to 1.
 - Maximum panel length (in feet) is 2.5 times the slab thickness (in inches) to a maximum of 15 feet.
 - FLARE: If a flare is in a pedestrian circulation area, the slope of the flare shall be 1:10 (10%) maximum measured perpendicular to the pedestrian access route.
 - DETECTABLE WARNING SURFACE: A detectable warning surface is required in a ramp, transition, or landing that provides a flush connection to the street. Perpendicular and non-perpendicular connections are shown in APWA Plan No. 258.
 - Protect concrete from deicing chemicals during cura.
 - Fill flow line with water. Repair construction that doesn't drain.

80

STANDARD DETAIL

SEE DETAIL 1/A1.22 FOR DETECTABLE SURFACE

1 CURB AND RAMP STANDARD DETAIL
NOT TO SCALE



State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT
4110 State Office Building/Salt Lake City, Utah 84143/308-3018

Project: **UNIVERSITY OF UTAH
SALT LAKE CITY
FACILITIES
CONSTRUCTION
AND MANAGEMENT**

Sheet Title:
SITE DETAILS

Revisions:
CODE REVIEW 01.09.08

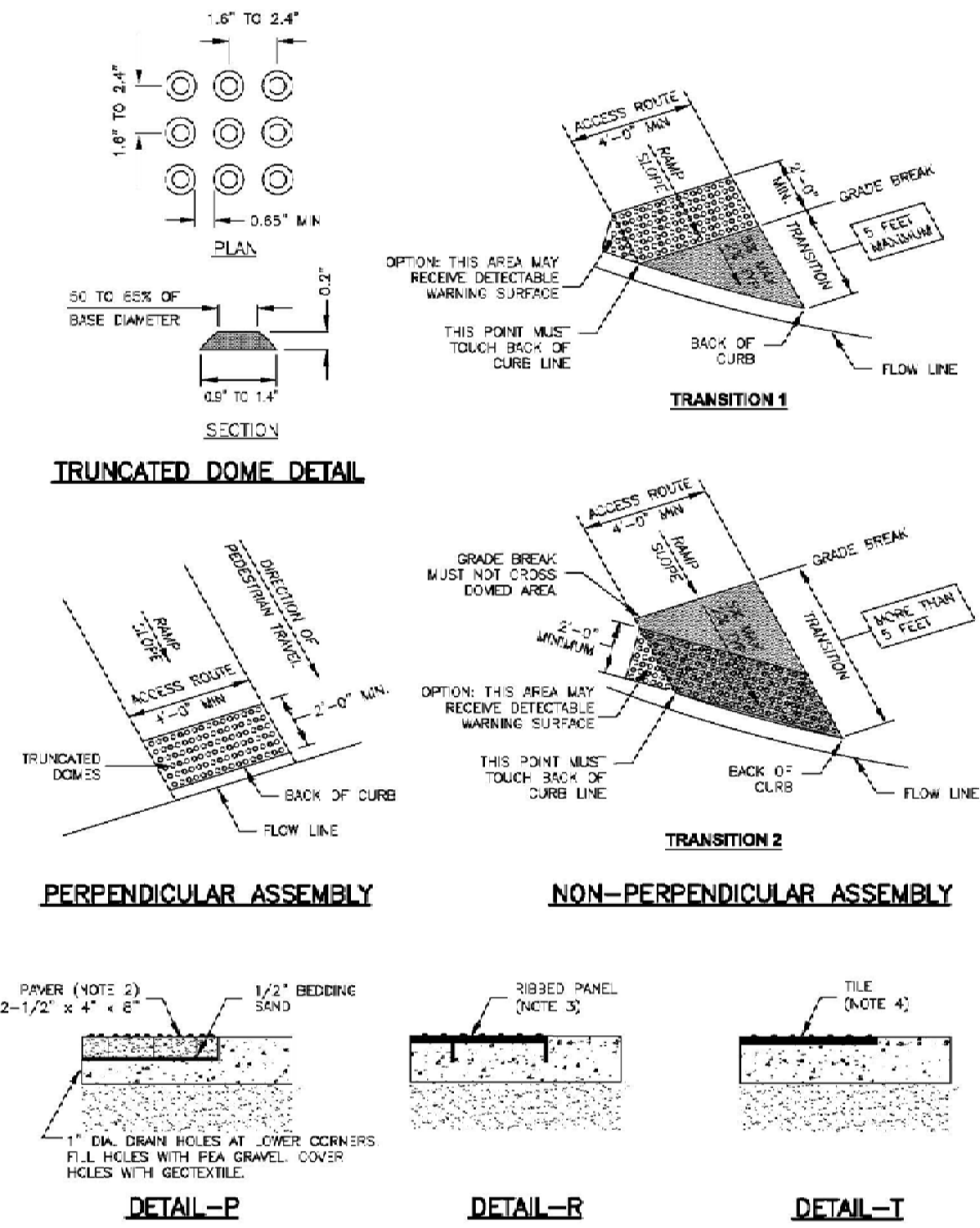
PROJECT NUMBER: 07483
DATE: 05.30.08
DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

A1.21
SHEET NUMBER:
Sheet of

SARGENT DESIGN GROUP
ARCHITECTURE | PLANNING

2390 WEST HIGHWAY 56
SUITE 4A
CEDAR CITY, UTAH 84720
OFFICE: (435) 586-8510
FAX: (435) 586-4873

- Detectable warning surface**
1. DETECTABLE WARNING SURFACE:
 - A. Dome Size:
 1. Base diameter – 0.9 inches minimum, 1.4 inches maximum.
 2. Top diameter – 50 percent of the base diameter minimum to 65 percent of the base diameter maximum.
 3. Height – 0.2 inches.
 - B. Dome Spacing:
 1. Center to center spacing – 1.6 inches minimum, 2.4 inches maximum.
 2. Base to base spacing of 0.65 inches minimum measured between the most adjacent domes.
 - C. Dome Row Alignment:
 1. Perpendicular Assembly: Perpendicular to the bottom grade break.
 2. Non-perpendicular Assembly Transition 1: Perpendicular to grade break at the bottom of the ramp.
 3. Non-perpendicular Assembly Transition 2: Perpendicular or radial to the flow line.
 - D. Contrast: Provide a surface that contrasts visually with adjacent walking surface either light-on-dark, or dark-on-light.
 - E. Size:
 1. 2 feet minimum in the direction of pedestrian travel.
 2. Full width of area where a ramp, transition, or landing provides a flush connection to the street. Minimum width of flush connection is 4 feet.
 2. PAVER
 - A. Material: ENGINEER's choice of:
 1. Geotextile filter fabric, bedding and joint sand, and solid interlocking concrete paver units per APWA Section 32.14.13.
 2. Brick and mortar (not shown) per APWA Section 32.14.16.
 - B. Layout: All cut pavers are half pavers or larger.
 3. RIBBED PANEL
 - A. Material: CONTRACTOR's choice with ENGINEER's acceptance.
 - B. Layout: Trim panel, as required matching required geometries.
 - C. Installation: Per manufacturer's recommendations.
 4. TILE
 - A. Material: CONTRACTOR's choice with ENGINEER's acceptance.
 - B. Layout: Trim panel, as required matching required geometries.
 - C. Installation: Per manufacturer's recommendations.



Detectable warning surface

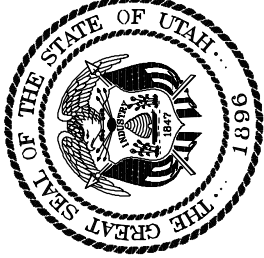
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Plan No:
238

1 DETECTABLE SURFACE

NOT TO SCALE



State of Utah—Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT
410 State Office Building/Salt Lake City, Utah 84143/308-3048

Project:
SALT LAKE CITY
FACILITIES
IMPROVEMENT
PROGRAM

Sheet Title:
SITE DETAILS

Revisions:
CODE REVIEW 01.09.08

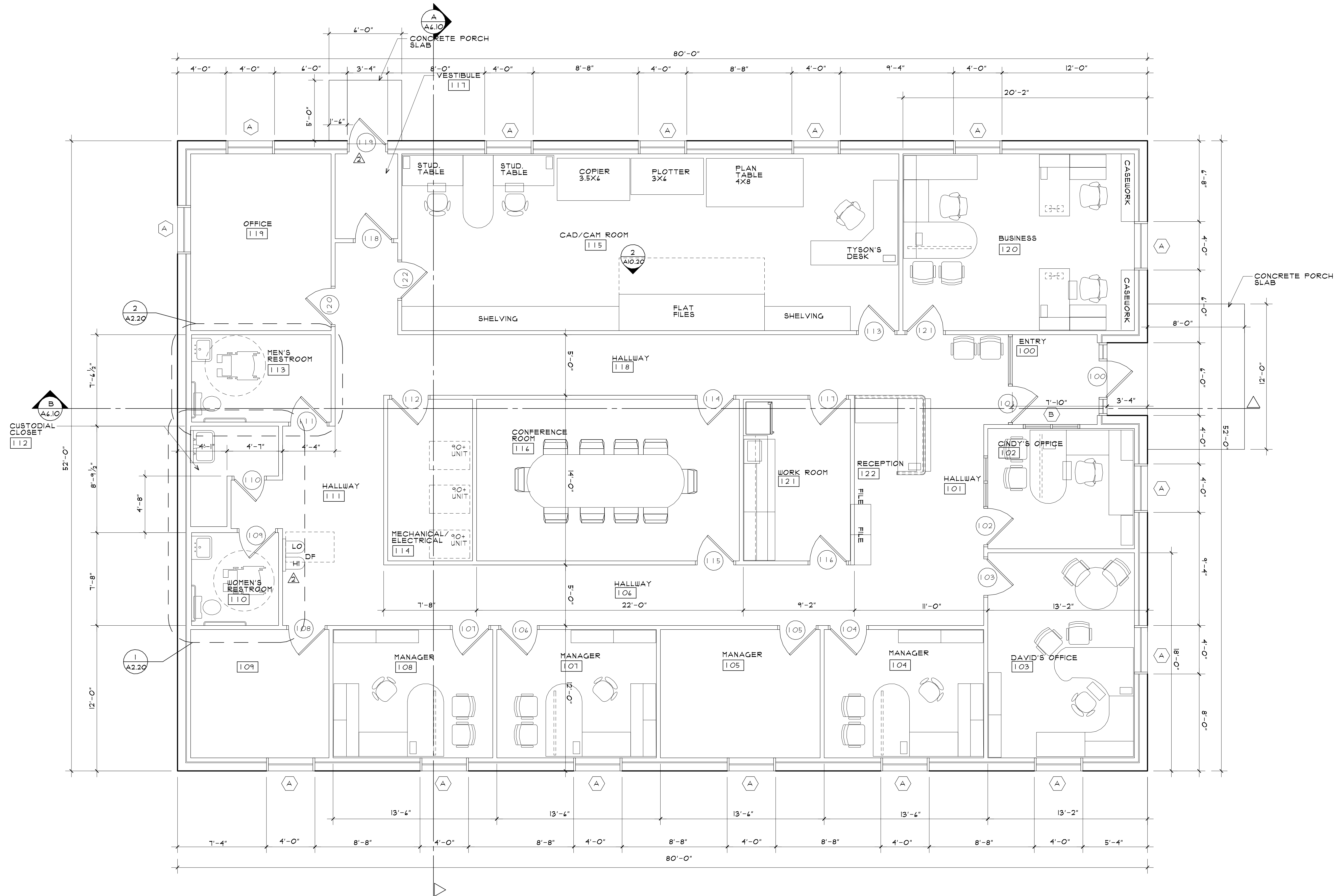
PROJECT NUMBER: 07483
DATE: 05.30.08
DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

A1.22

SHEET NUMBER:
Sheet of

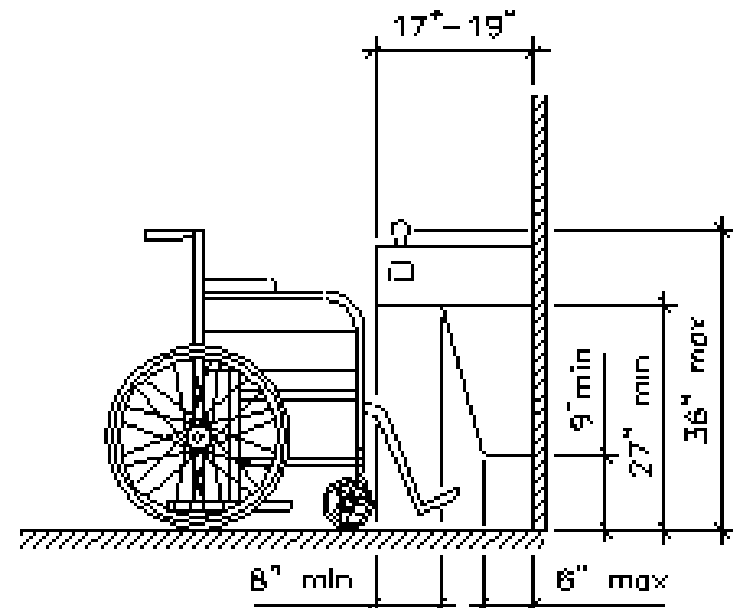
SARGENT DESIGN GROUP
ARCHITECTURE | PLANNING

2390 WEST HIGHWAY 56
SUITE 4A
CEDAR CITY, UTAH 84720
OFFICE: (435) 586-8510
FAX: (435) 586-4873



FLOOR PLAN
SCALE: 1/4"=1'-0"

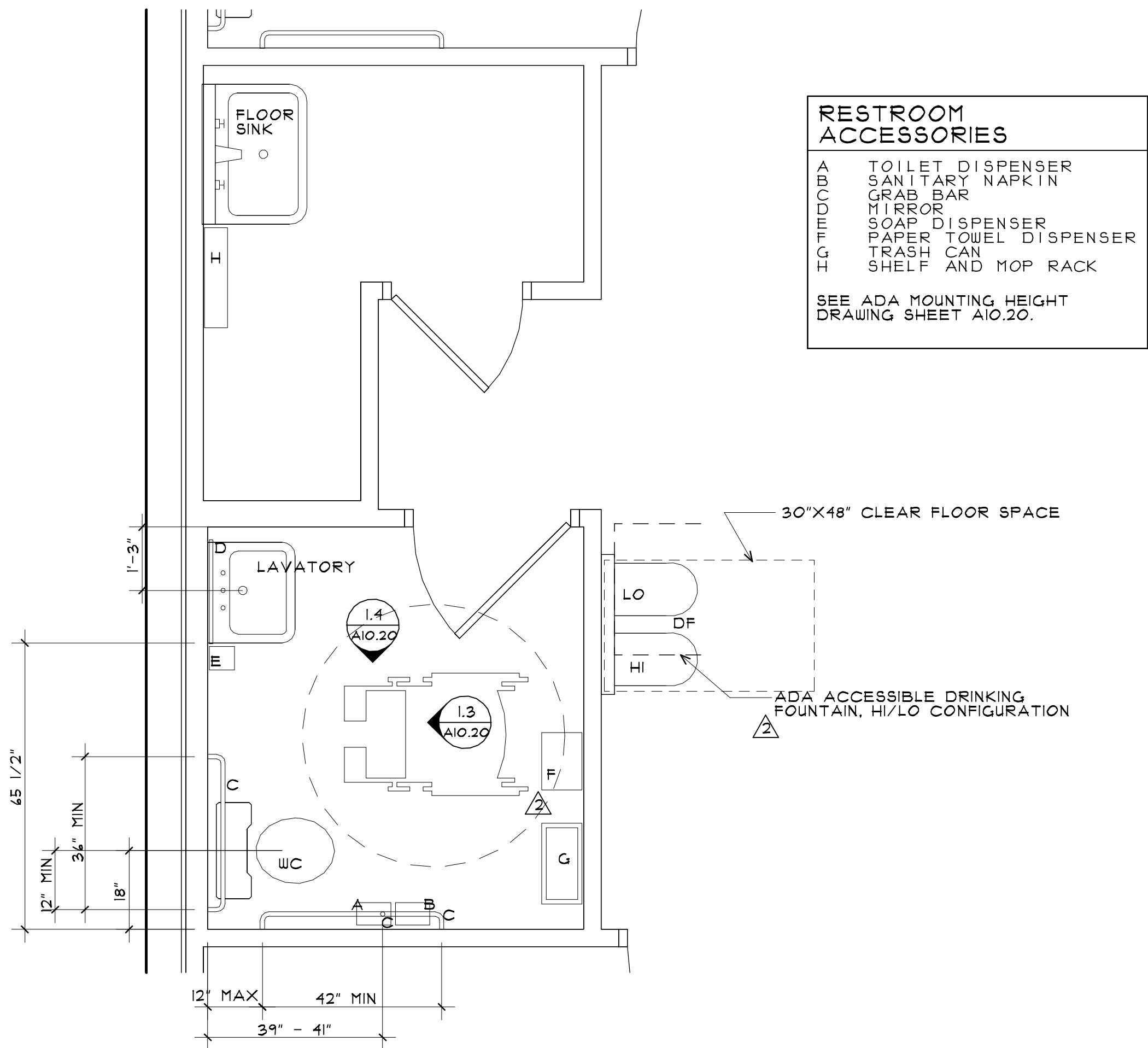




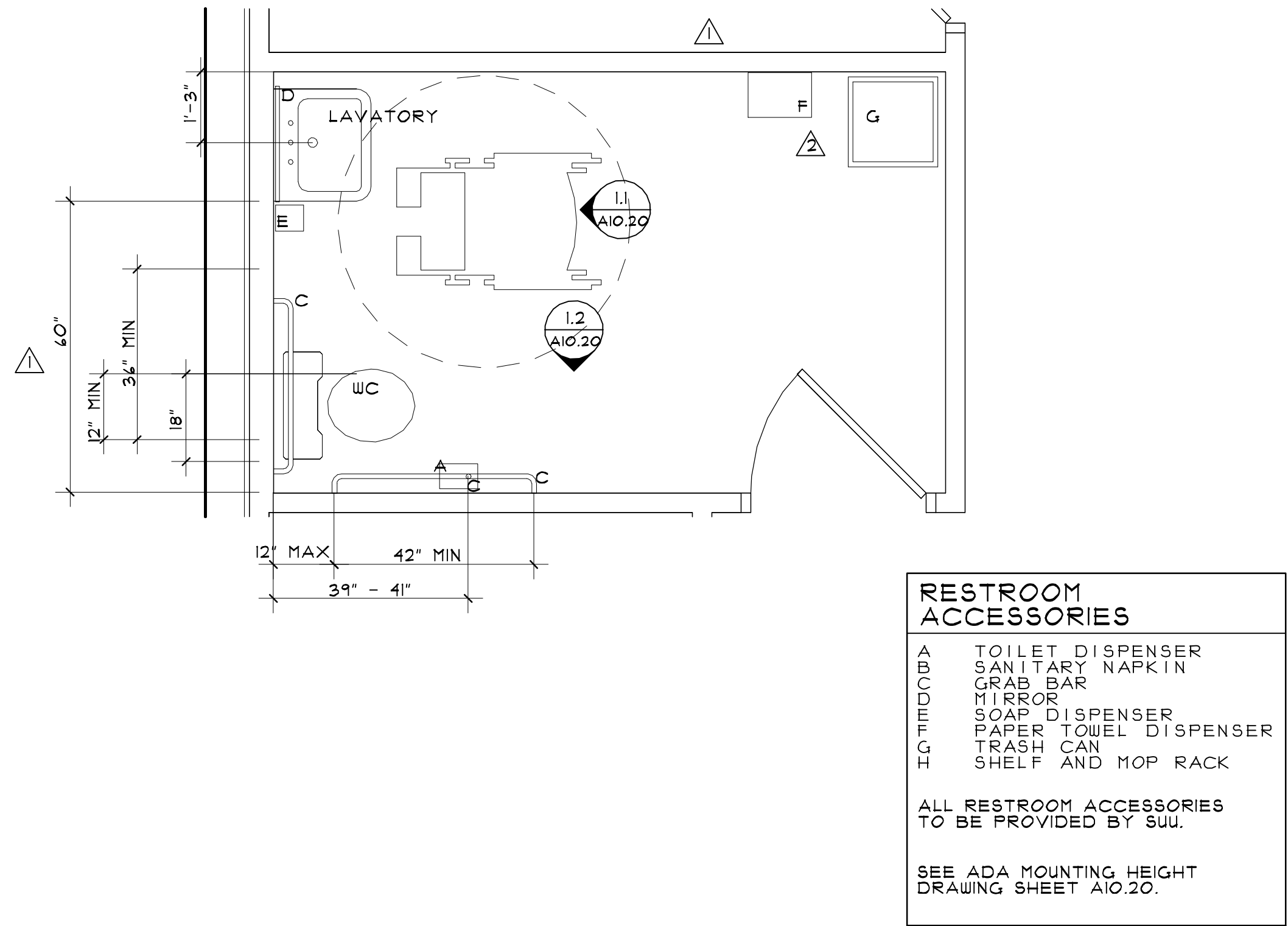
NOTE: Equipment permitted in shaded area.

ADAAG FIGURE 27(a)
DRINKING FOUNTAINS AND WATER COOLERS
SPOUT HEIGHT AND KNEE CLEARANCE

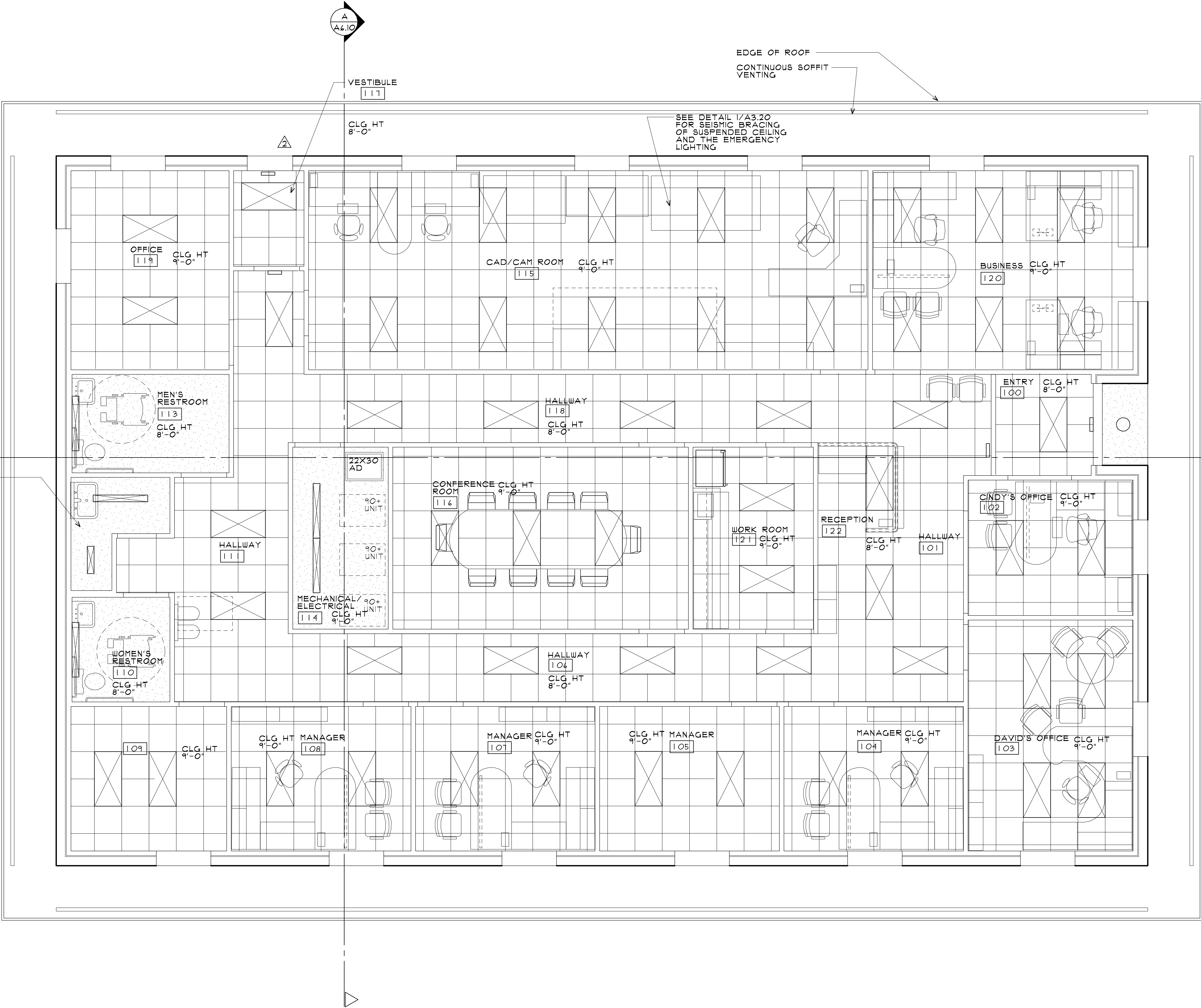
3 DRINKING FOUNTAIN
NOT TO SCALE



1 ENLARGED FLOOR PLAN - WOMEN'S RESTROOM
SCALE: 1/2" = 1'-0"



2 ENLARGED FLOOR PLAN - MEN'S RESTROOM
SCALE: 1/2" = 1'-0"



LIGHTING LEGEND

2X4 FLUORESCENT LIGHT FIXTURE

1X4 FLUORESCENT LIGHTING FIXTURE

CAN LIGHT

EXIT SIGN

EXHAUST FAN

2X2 GRID SYSTEM

GYPSUM DRYWALL HARD LID SYSTEM

GENERAL NOTES:

1. REFER TO ELECTRICAL PLANS FOR ACTUAL FIXTURES.

2. ELECTRICAL PLANS TAKE PRECEDENTS OVER THIS SHEET.

SARGENT DESIGN GROUP

ARCHITECTURE | PLANNING

2390 WEST HIGHWAY 56
SUITE 4A
CEDAR CITY, UTAH 84720
OFFICE: (435) 586-8510
FAX: (435) 586-4873

State of Utah-Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT
410 State Office Building/Salt Lake City, Utah 84143/308-3018

Project: **UTAH FACILITIES
SILVERDALE
MANAGEMENT**

Sheet Title:
**REFLECTED
CEILING
PLAN**

Revisions:

1

CODE REVIEW 06.30.08

2

CODE REVIEW 01.09.08

PROJECT NUMBER: 07483
DATE: 05.30.08
DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

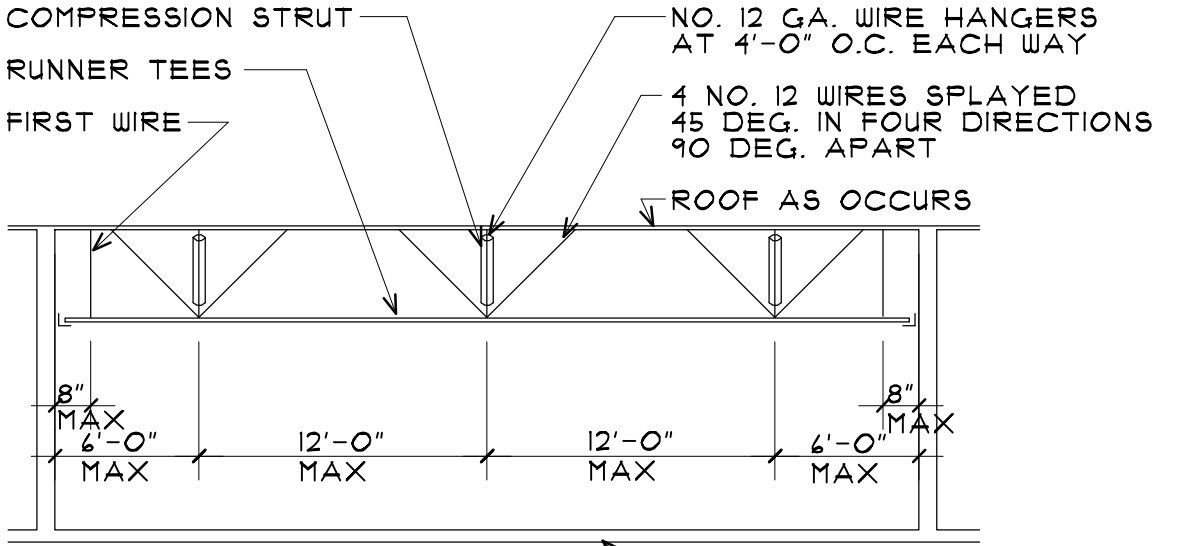
A3.10

SHEET NUMBER:
Sheet of

REFLECTED CEILING PLAN

SCALE: 1/4"=1'-0"



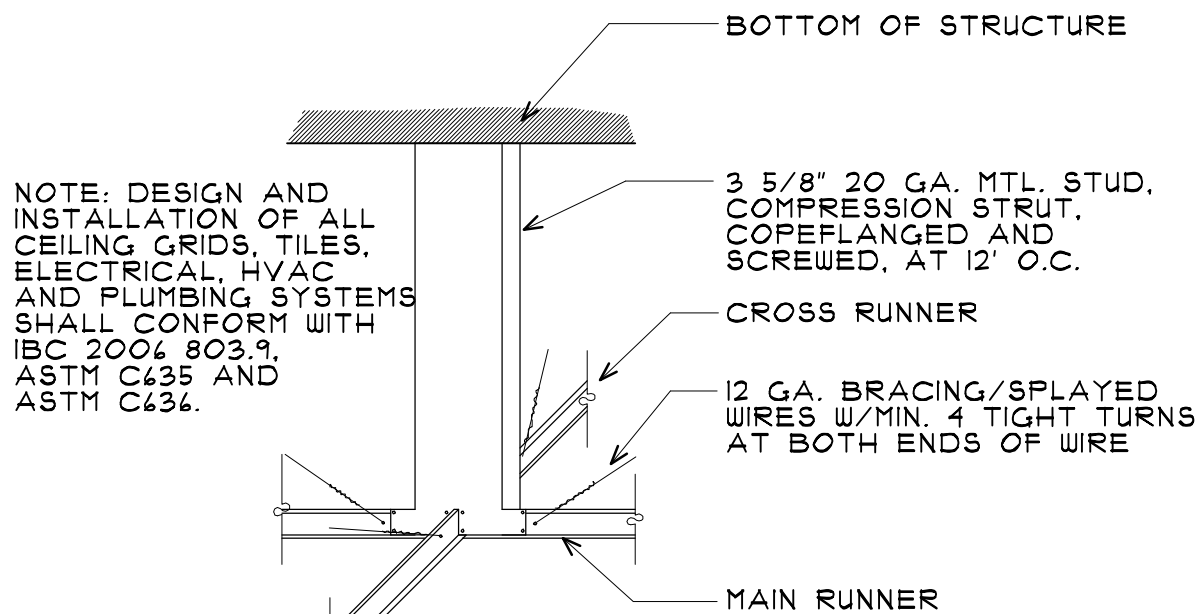


COMPRESSION STRUT
RUNNER TEES
FIRST WIRE
NO. 12 GA. WIRE HANGERS AT 4'-0" O.C. EACH WAY
4 NO. 12 WIRES SPLAYED 45 DEG. IN FOUR DIRECTIONS 90 DEG. APART
ROOF AS OCCURS
FLOOR AS OCCURS
SUSPENDED ACOUSTIC CEILING: (SEE IBC 2006, 803.9 & ASTM C425 & C434)
NOTES:
1. VERTICAL HANGERS, SUSPENSION WIRES SHALL NOT BE SMALLER THAN NO. 12 GAGE SPACED AT 4'-0" O.C. OR NO. 10 GAGE AT 5'-0" O.C. ALONG EACH MAIN RUNNER. EACH VERTICAL WIRE SHALL BE ATTACHED TO THE CEILING SUSPENSION MEMBER AND TO THE SUPPORT ABOVE WITH A MINIMUM OF THREE TURNS. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 LBS. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 4 OUT OF PLUMB UNLESS COUNTER SLOPING WIRES ARE PROVIDED.
2. PERIMETER HANGERS: THE TERMINAL ENDS OF EACH CROSS RUNNER AND MAIN RUNNER SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8" FROM EACH WALL OR CEILING DISCONTINUITY WITH NO. 12 GAGE WIRE OR APPROVED WALL SUPPORT.

3. LATERAL FORCE BRACING, HORIZONTAL RESTRAINTS SHALL BE EFFECTED BY FOUR NO. 12 GAGE WIRES SECURED TO THE MAIN RUNNER WITHIN TWO INCHES OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. A STRUT FASTENED TO THE MAIN RUNNER SHALL EXTEND TO AND BE FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES. THE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FEET ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6' - 0" FROM EACH WALL. ATTACHMENT OF THE RETRAINT WIRES TO THE STRUCTURE SHALL BE ADEQUATE FOR THE LOAD IMPOSED. LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 4 INCHES FROM ALL HORIZONTAL PIPING OR DUCT WORK THAT IS NOT PROVIDED WITH BRACING RESTRAINTS FOR HORIZONTAL FORCE. BRACING WIRES SHALL BE ATTACHED TO THE GRID AND TO THE STRUCTURE IN SUCH A MANNER THAT THEY CAN SUPPORT A DESIGN LOAD OF NOT LESS THAN 200 LBS OR THE ACTUAL DESIGN LOAD, WHICHEVER IS GREATER, WITH A SAFETY FACTOR OF 2.
4. PERIMETER MEMBERS: FOR TILE CEILINGS, ENDS OF MAIN RUNNERS AND CROSS MEMBERS SHALL BE TIED TOGETHER TO PREVENT THEIR SPREADING.
5. MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER MEMBER AT TWO ADJACENT WALLS WITH CLEARANCE BETWEEN THE WALL AND RUNNERS MAINTAINED AT THE TWO OTHER WALLS.

LIGHTING FIXTURES:
1. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE LIGHTING FIXTURE HEIGHT ACTING IN ANY DIRECTION. NO. 12 GAGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OR EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES. Wires SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACKED TO THE LIGHTING FIXTURES WEIGHING 50 LBS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.
2. PENDANT-HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO. 12 GAGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.

BRACING FOR ACOUSTICAL CEILINGS



GENERAL NOTE:
FOR ADDITIONAL TYPICAL INFORMATION, REFER TO SUSPENDED CEILING DETAIL, THIS SHEET.

LATERAL FORCE BRACING:
INSTALL W/ SCREWS TO SECURE.

PROVIDE (3) #12 SCREWS INTO TRUSS BOTTOM CHORD EACH

1 SEISMIC BRACING

SCALE: 1"=1'-0"

SIMPSON DTC ROOF TRUSS
CLIP AT EACH FRAMING MEMBER (PLACE NAIL IN CENTER)

PROVIDE 1/2" CLEARANCE (TYPICAL)

2X4 BLOCKING

5/8" GYPSUM DRYWALL

TOP CHANNEL OF NON-BEARING WALL

METAL STUD WALL W/ METAL STUD TRACK TOP AND BOTTOM

5/8" GYPSUM DRYWALL WHERE OCCURS (STOP GYPSUM DRYWALL AT TOP OF WALL AS SHOWN)

3 5/8" METAL STUD BRACING ATTACHED TO TRACK AT 4'-0" O.C.

5/8" GYPSUM DRYWALL (WHERE OCCURS)
ACOUSTICAL TILE (WHERE OCCURS)

METAL STUDS AT 16" O.C.

5/8" GYPSUM DRYWALL

SHAPED 2X TOP PLATE

SIMPSON DTC ROOF TRUSS
CLIP AT EACH TRUSS RAFTER (PLACE NAIL IN CENTER)

PROVIDE 1/2" CLEARANCE

5/8" GYPSUM DRYWALL (STOP GYPSUM DRYWALL AS SHOWN)

TOP CHANNEL OF NON-BEARING WALL

PERPENDICULAR TO TRUSS CHORD

TRUSSED RAFTER

5/8" GYPSUM DRYWALL WHERE OCCURS

3 5/8" METAL STUD BRACING ATTACHED TO TRACK AT 4'-0" MAXIMUM

ACOUSTICAL PANEL SUSPENSION SYSTEM

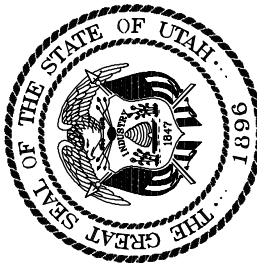
EDGE MOULDING

5/8" GYPSUM DRYWALL

METAL STUDS AT 16" O.C.

2 BRACING DETAILS

NOT TO SCALE



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CONSTRUCTION
AND MANAGEMENT**

Sheet Title:
**REFLECTED
CEILING
DETAILS**

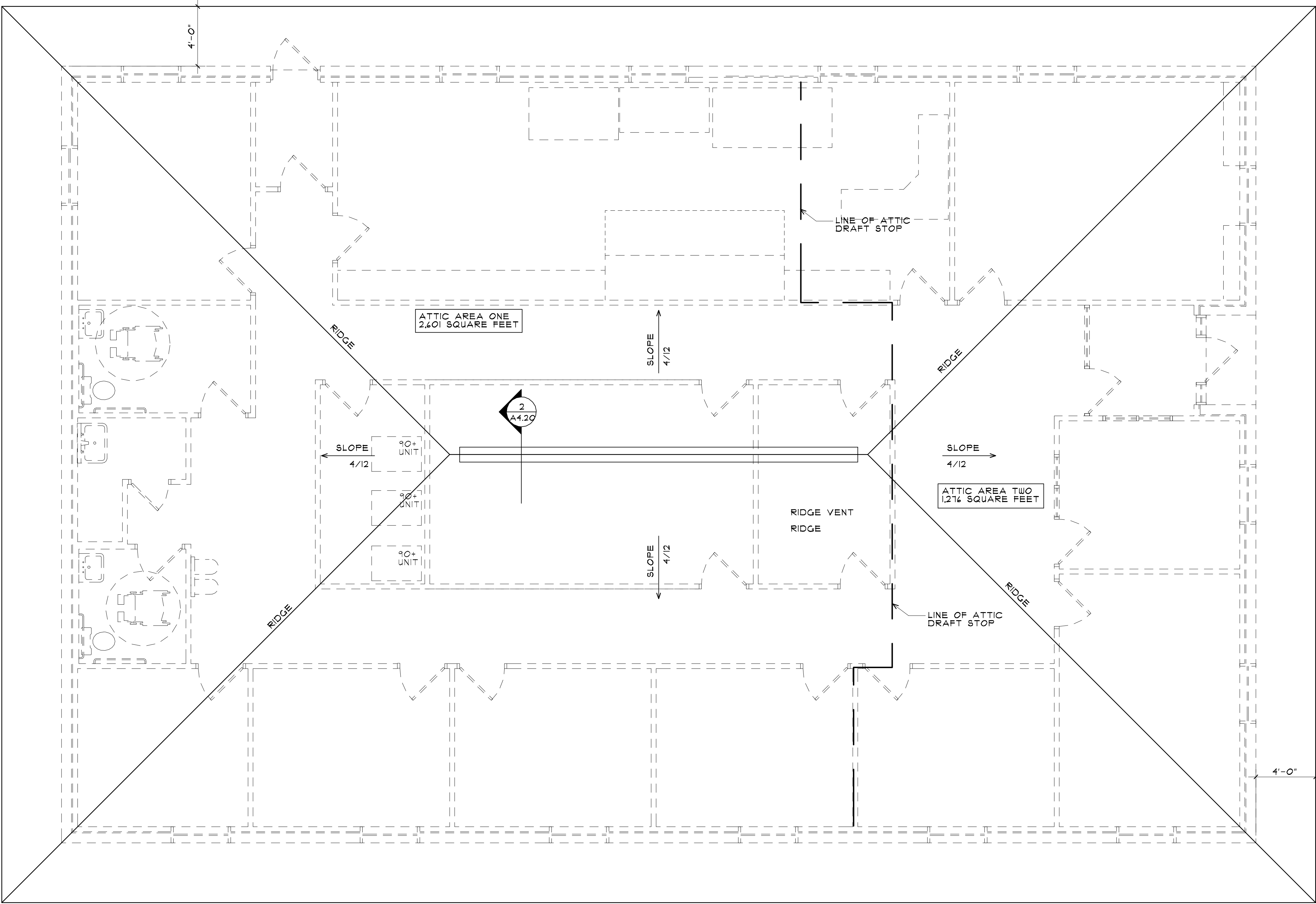
Revisions:
CODE REVIEW 01.09.08

PROJECT NUMBER: 07483
DATE: 05.30.08
DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

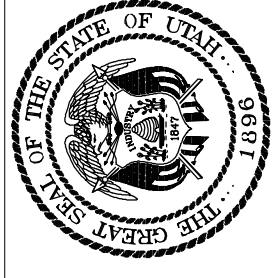
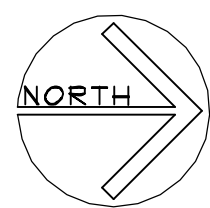
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ROOF PLAN
SCALE: 1/4"=1'-0"



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Project:
FACILITIES
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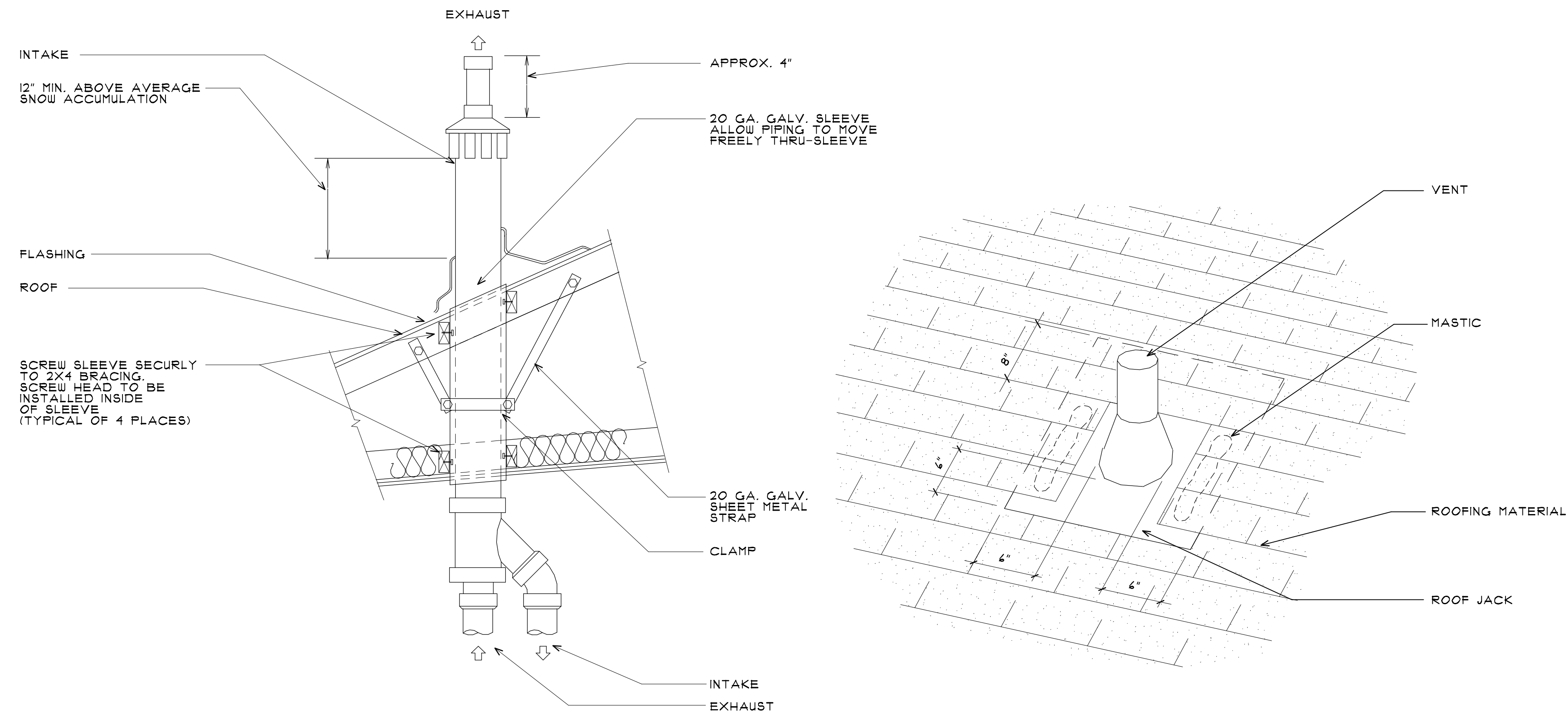
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ROOF PLAN

Revisions:
CODE REVIEW 06.30.08

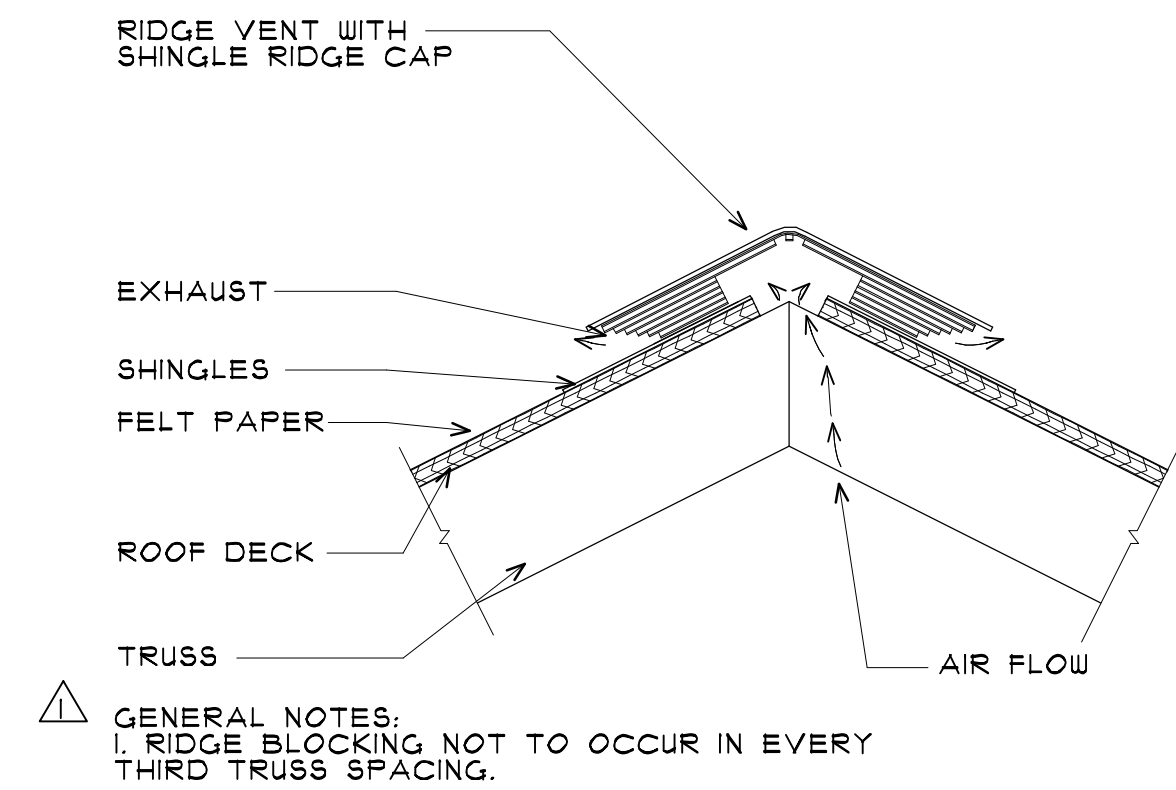
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DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

A4.10
SHEET NUMBER:
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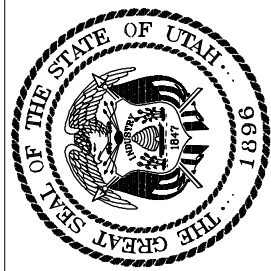
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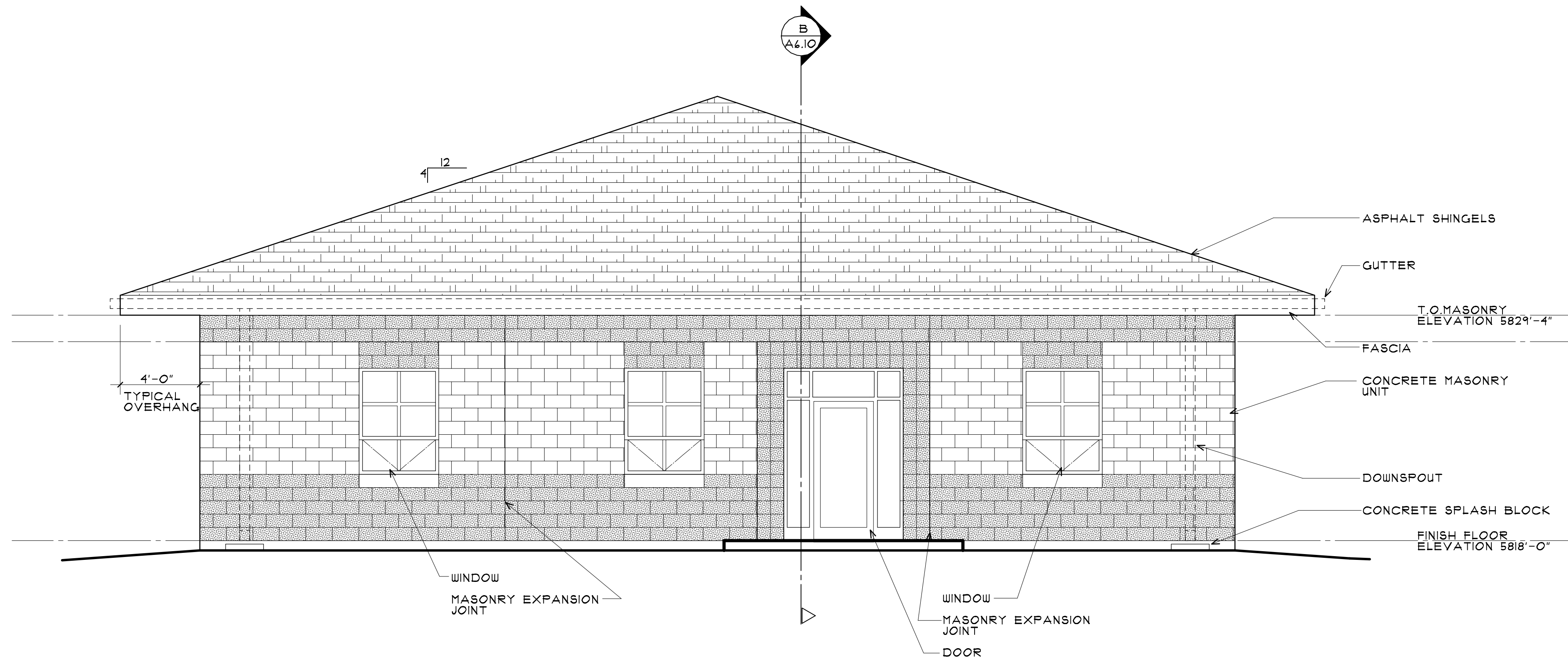


1 ROOF DETAILS
NOT TO SCALE

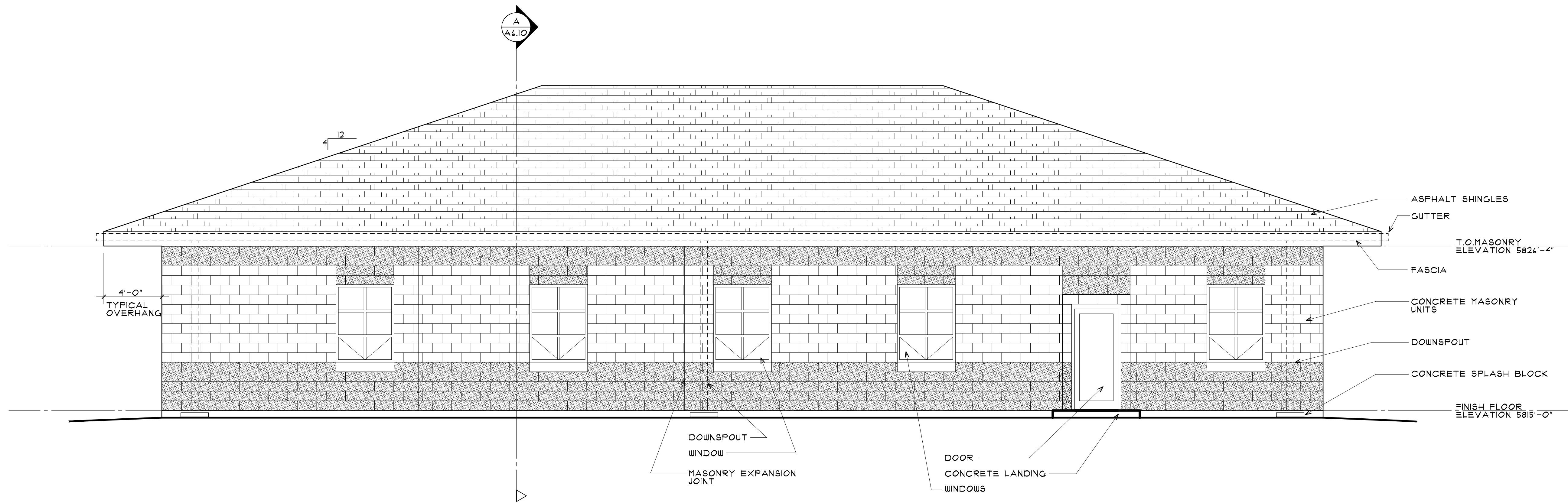


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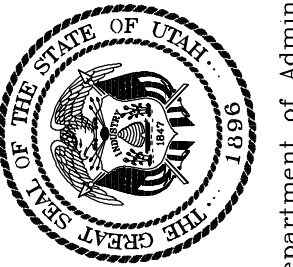


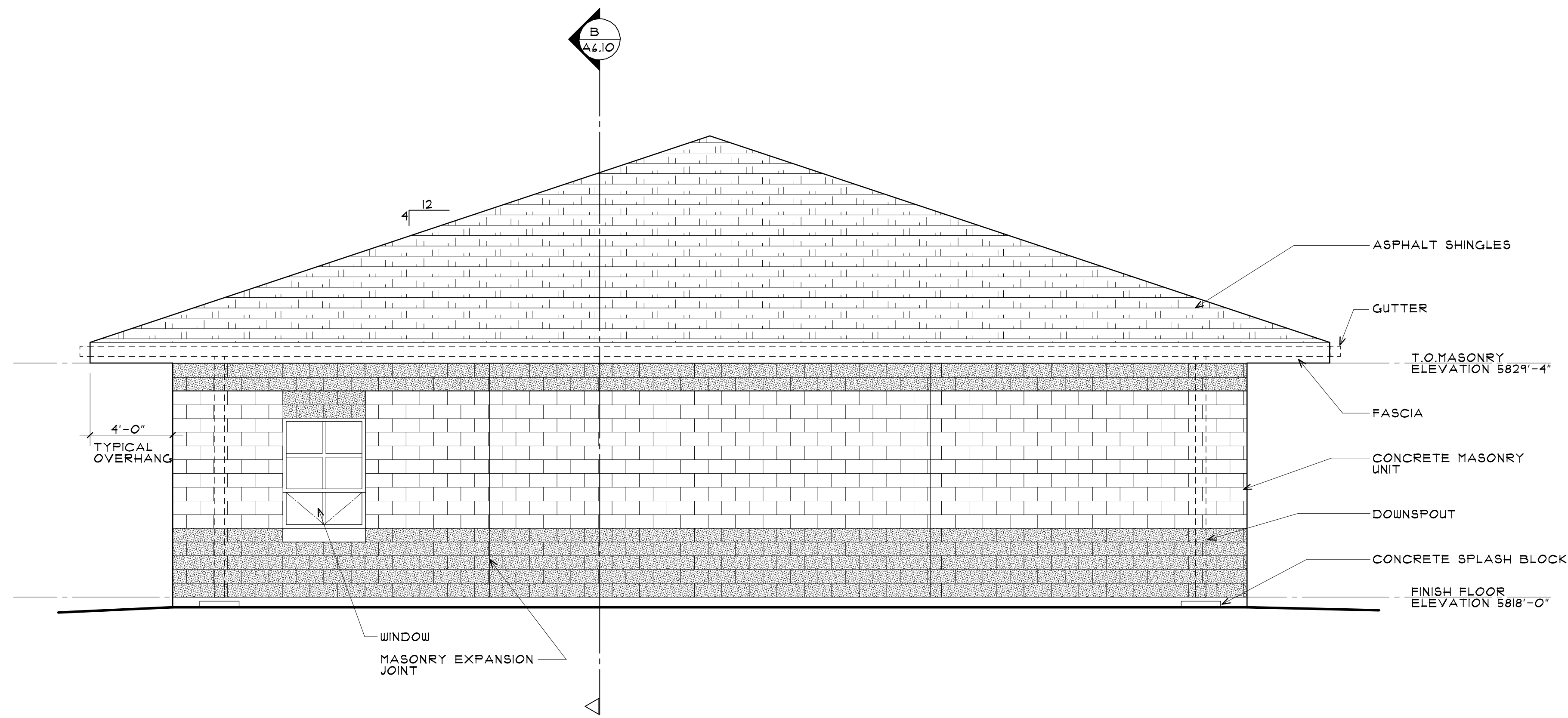


ELEVATION - NORTH
SCALE: 1/4"=1'-0"



ELEVATION - WEST
SCALE: 1/4"=1'-0"

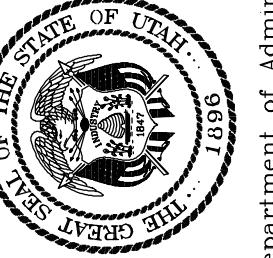


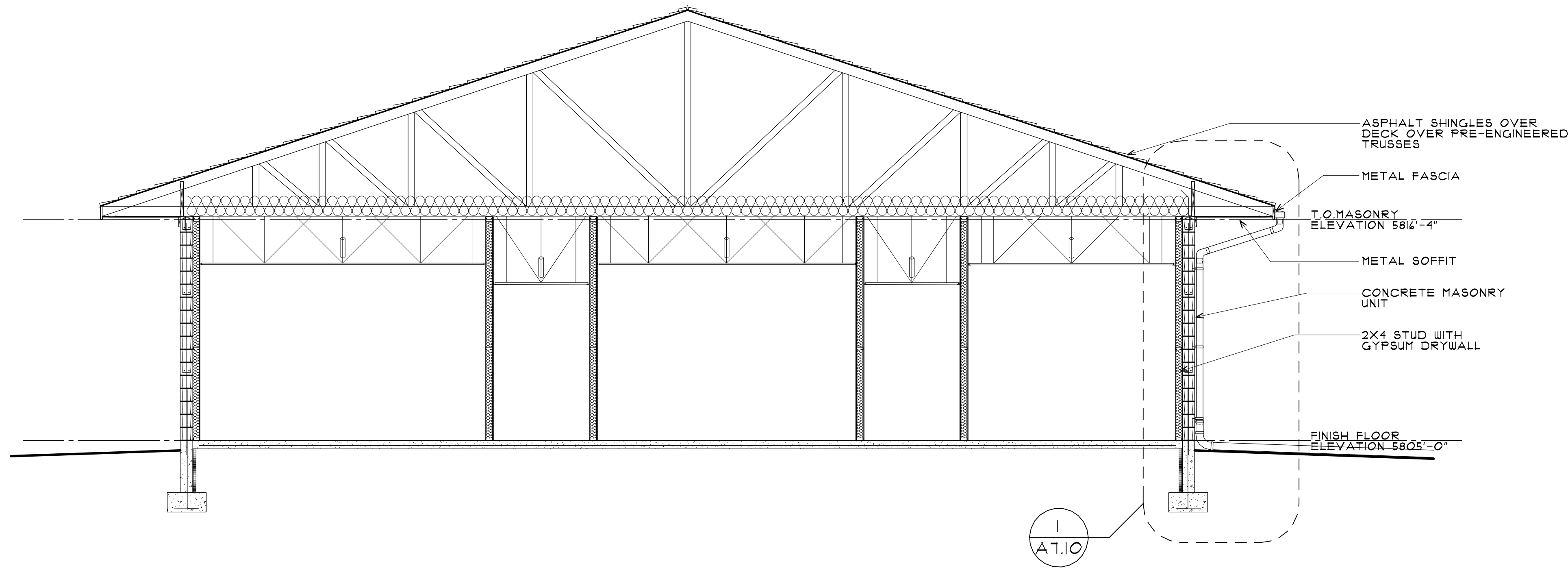


ELEVATION - EAST
SCALE: 1/4"=1'-0"

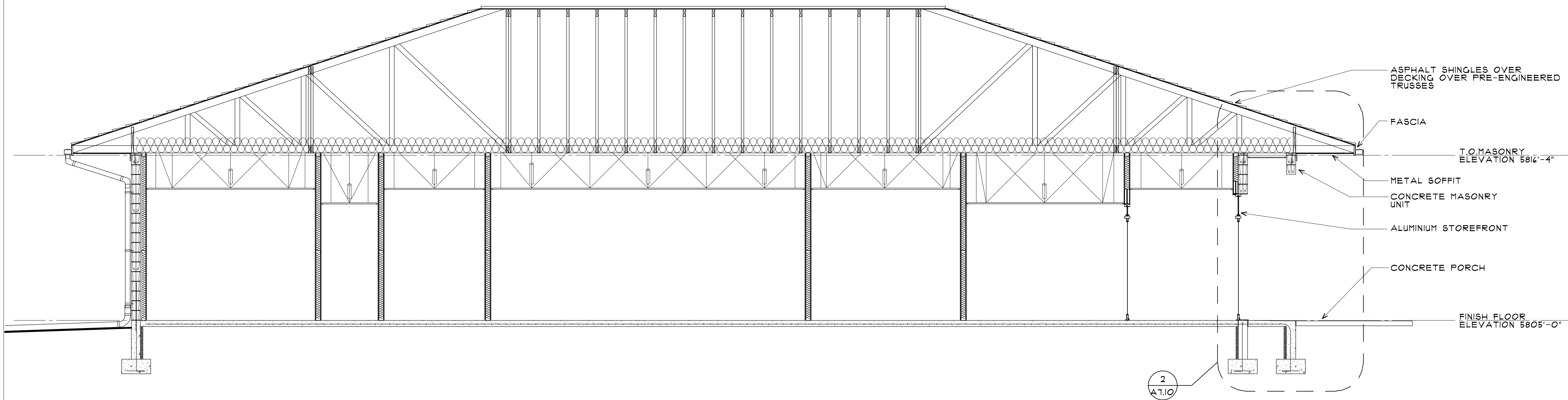


ELEVATION - SOUTH
SCALE: 1/4"=1'-0"

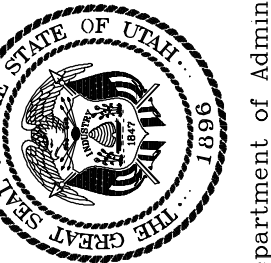


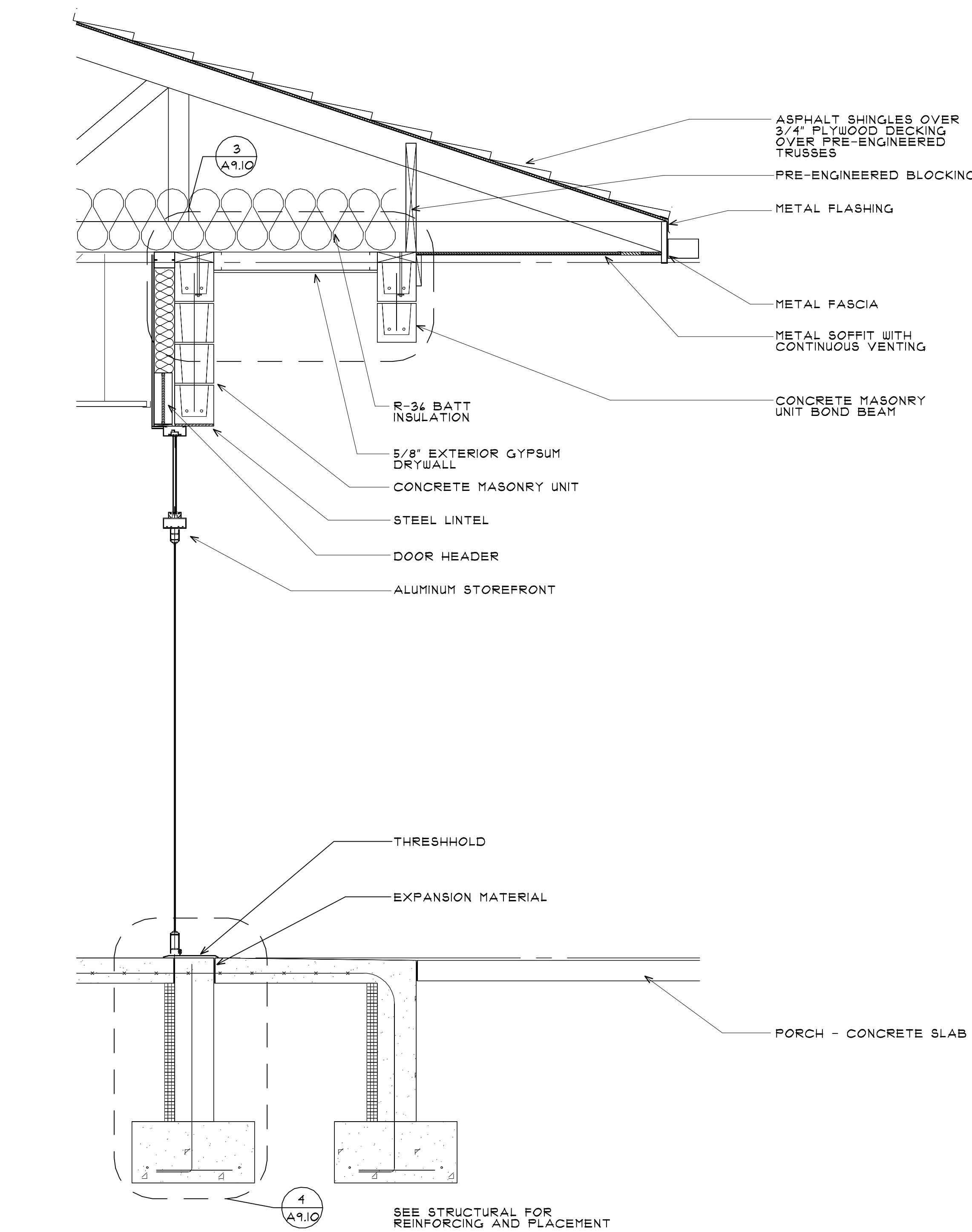


A BUILDING CROSS SECTION
SCALE: 1/4"=1'-0"

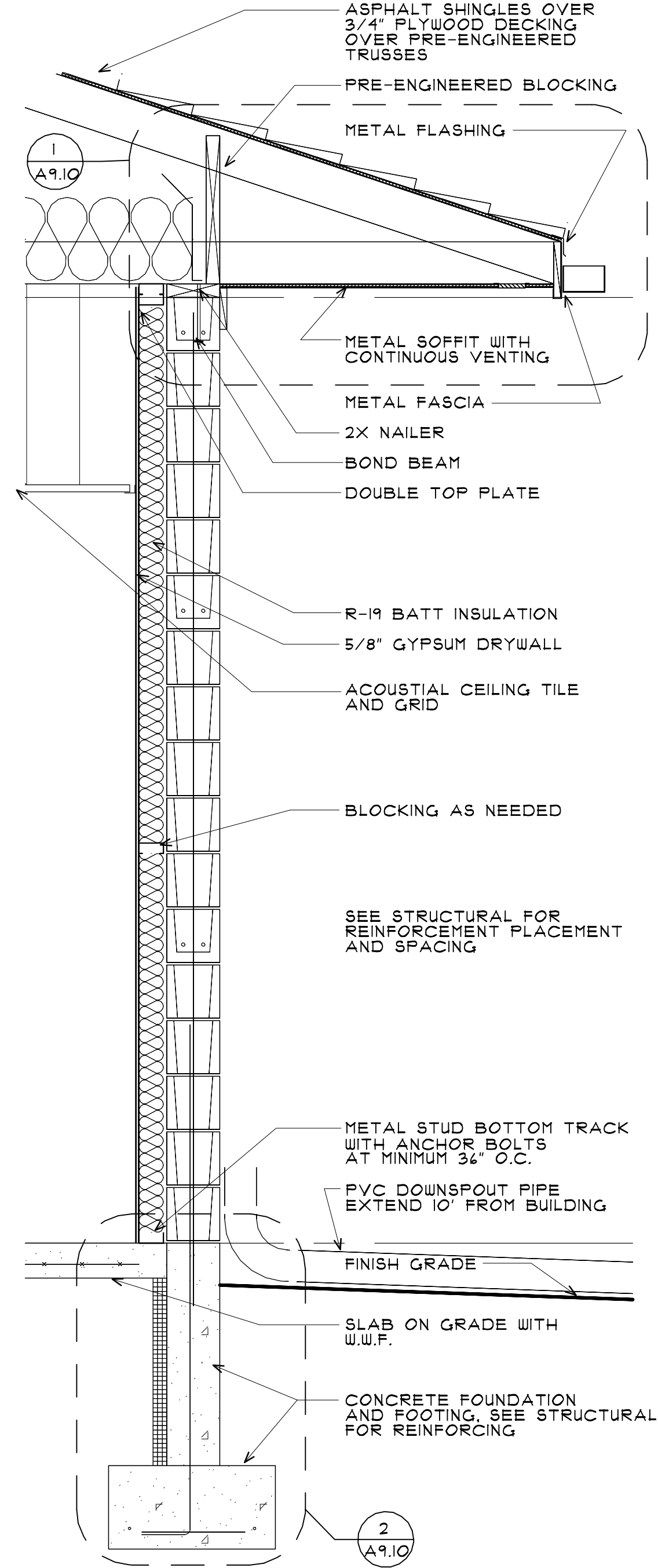


B BUILDING LONGITUDINAL SECTION
SCALE: 1/4"=1'-0"

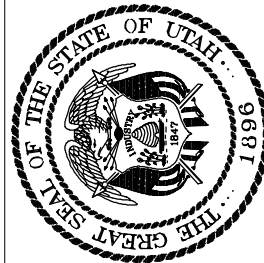


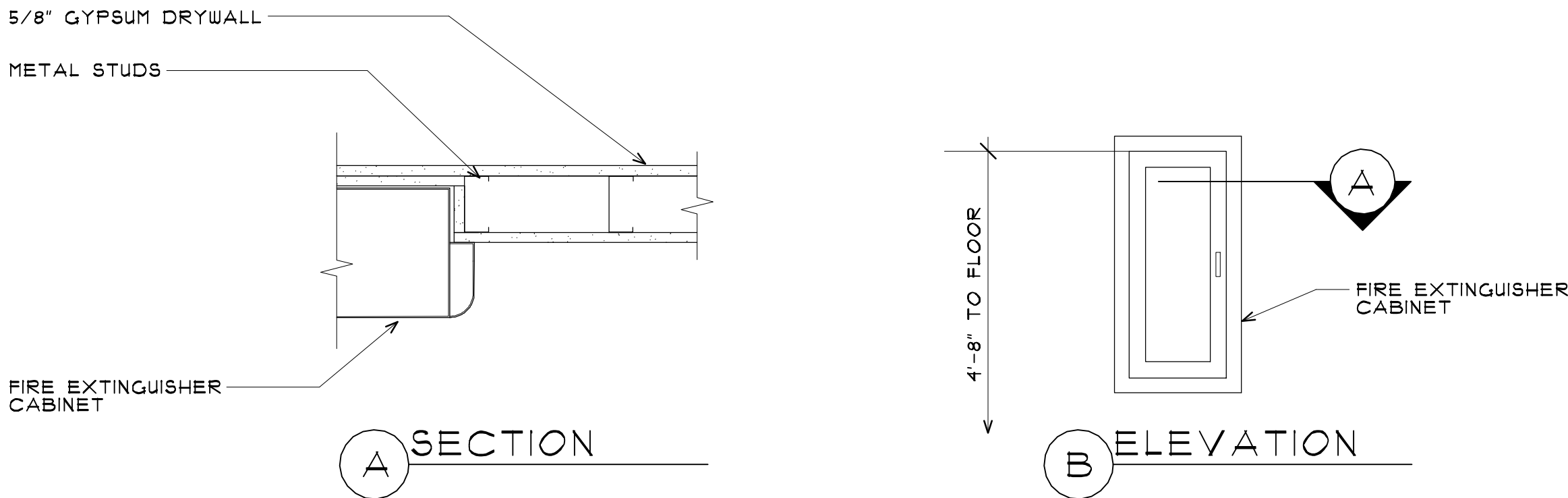


2 WALL SECTION
SCALE: 3/4" = 1'-0"

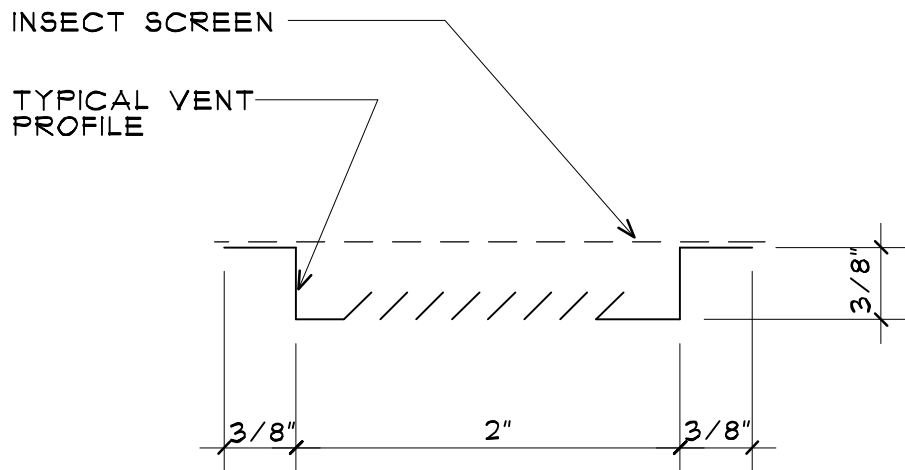


1 WALL SECTION
SCALE: 3/4" = 1'-0"

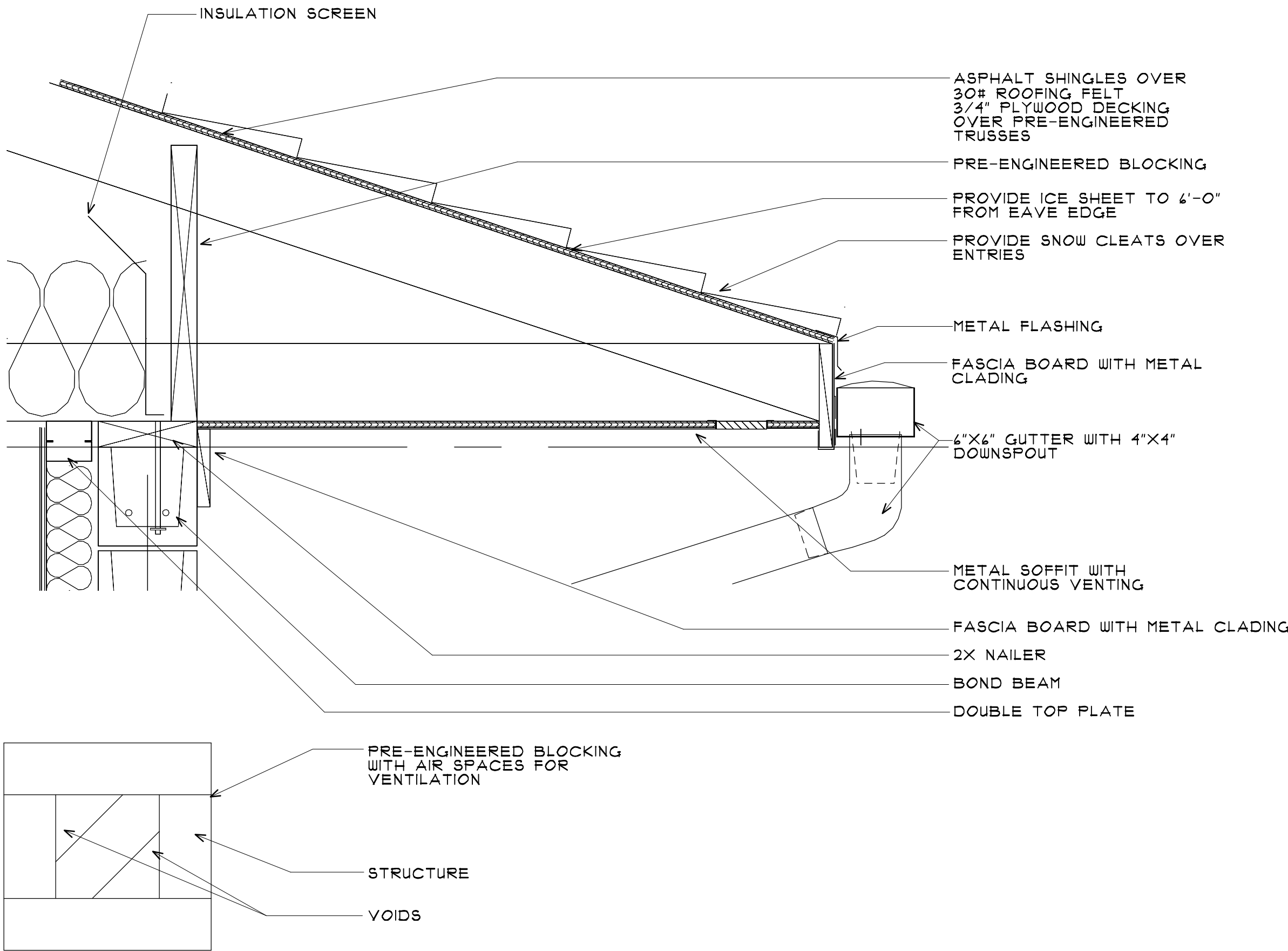




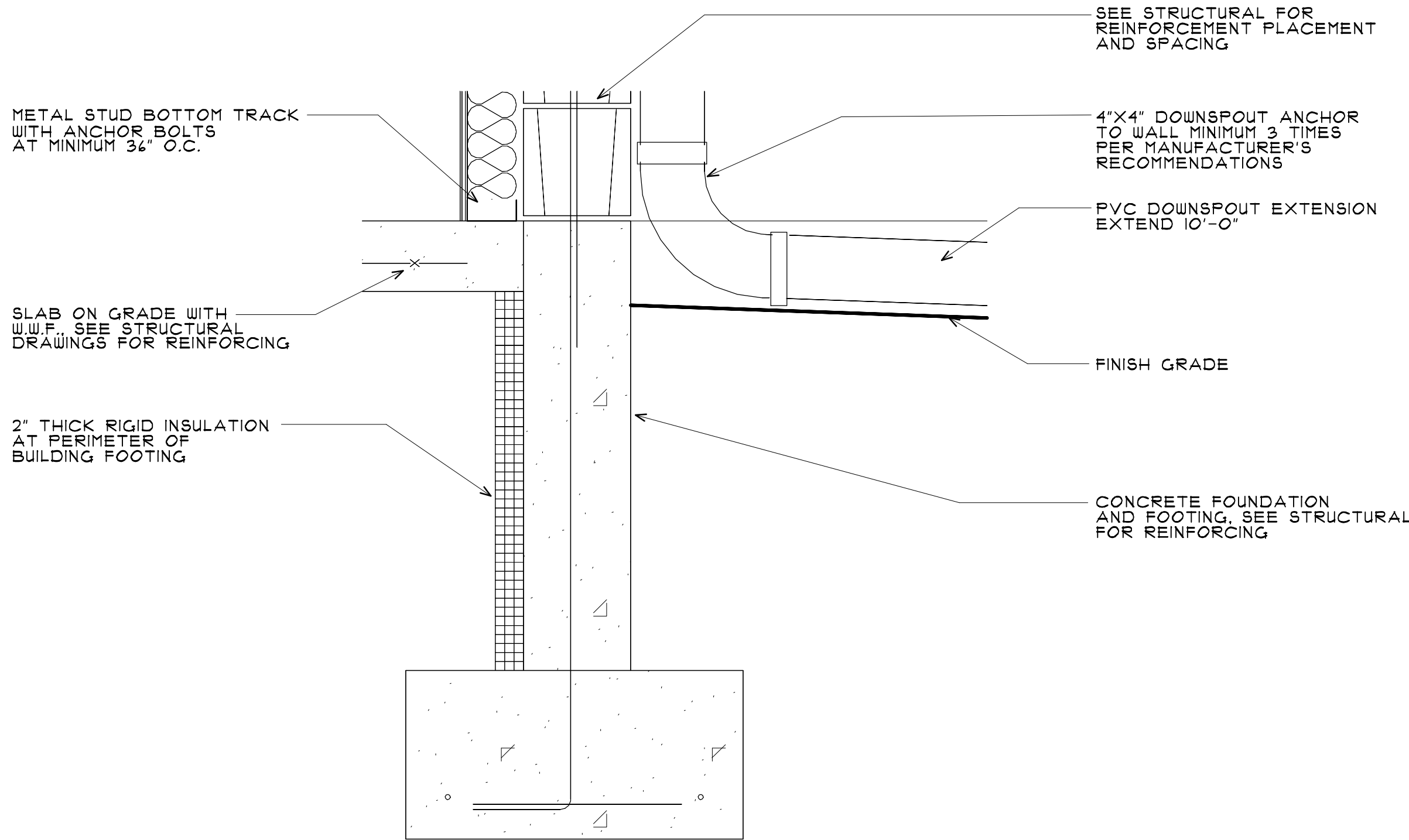
3 FIRE EXTINGUISHER CABINET DETAILS
NOT TO SCALE



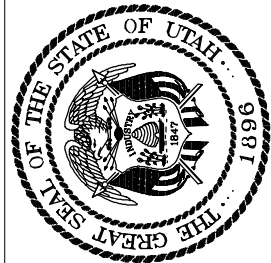
4 SOFFIT SCREEN
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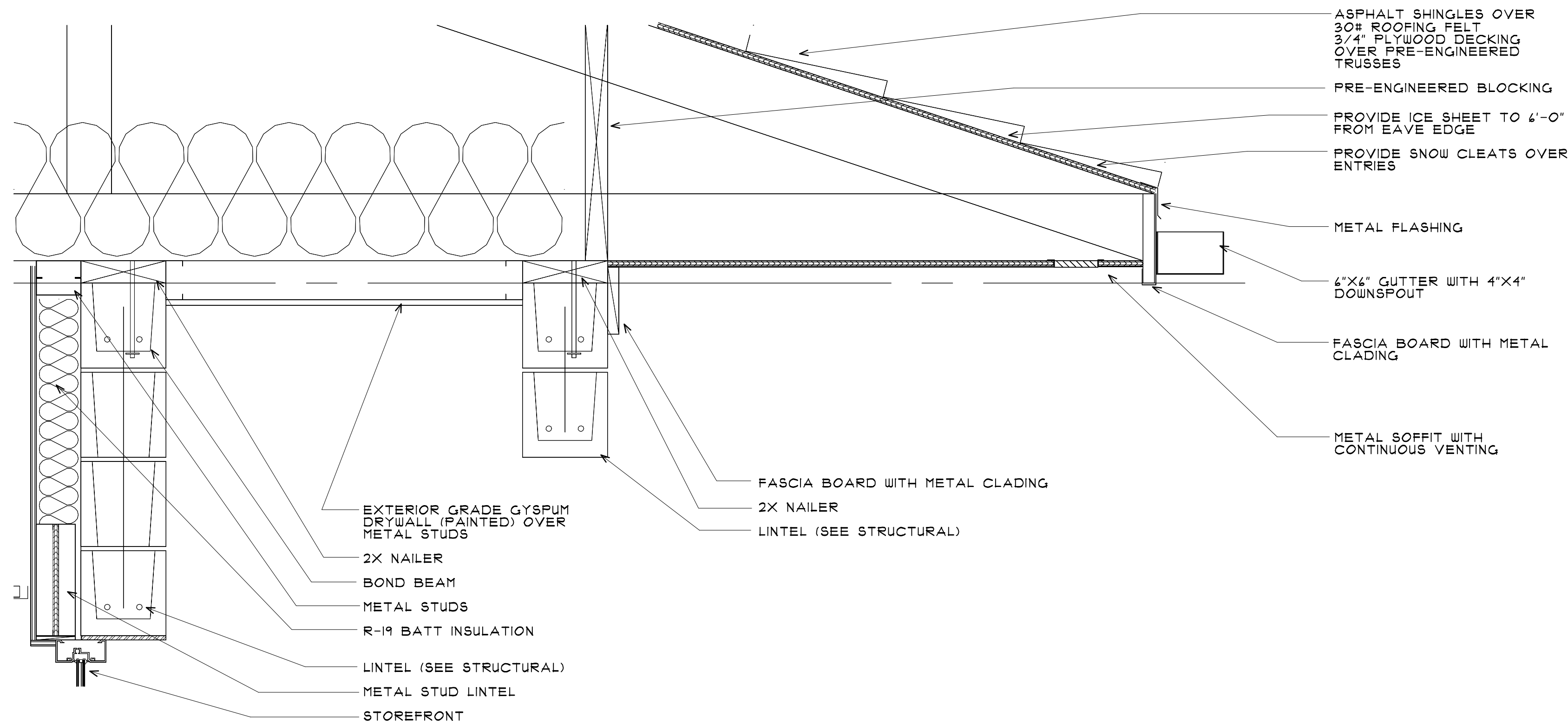


1 WALL DETAIL
SCALE: 1 1/2"=1'-0"

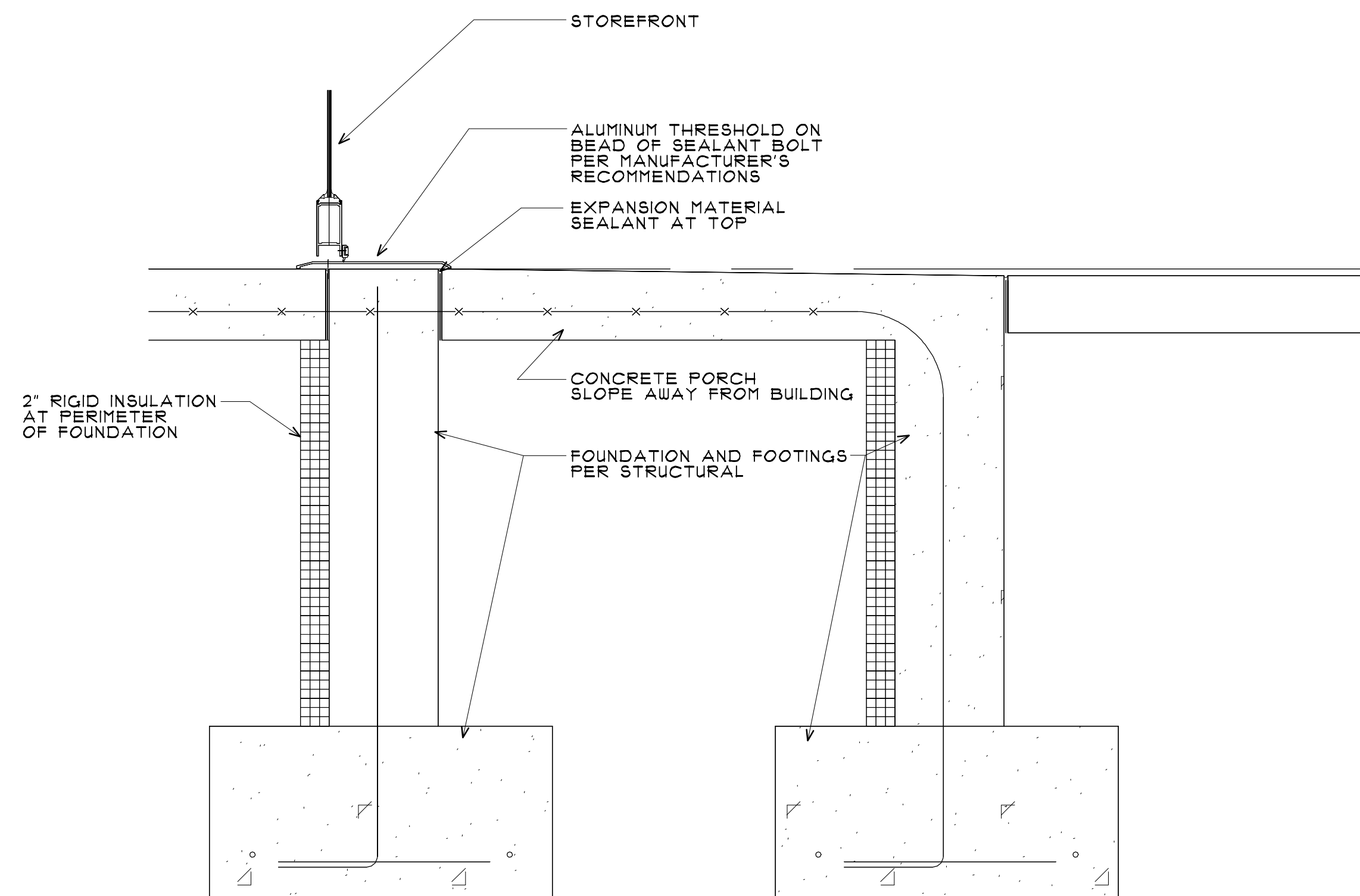


2 WALL DETAIL
SCALE: 1 1/2"=1'-0"

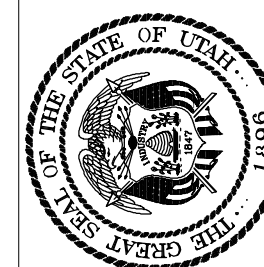




1 WALL DETAIL
SCALE: 1 1/2"=1'-0"



2 WALL DETAIL
SCALE: 1 1/2"=1'-0"

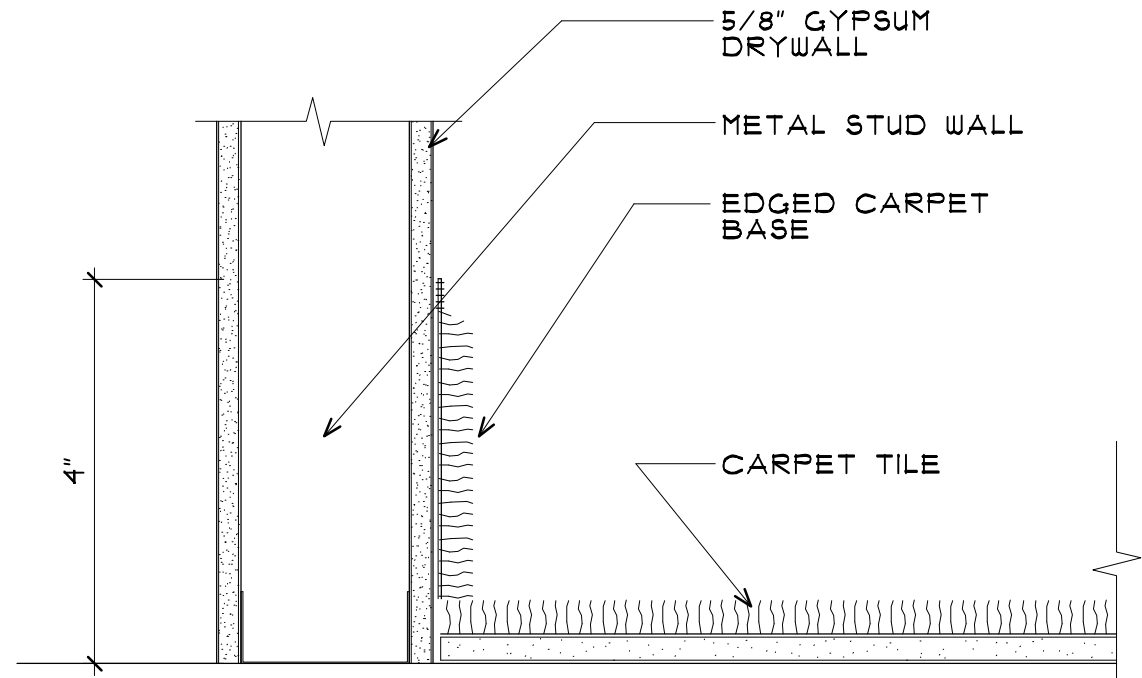


ROOM FINISH SCHEDULE

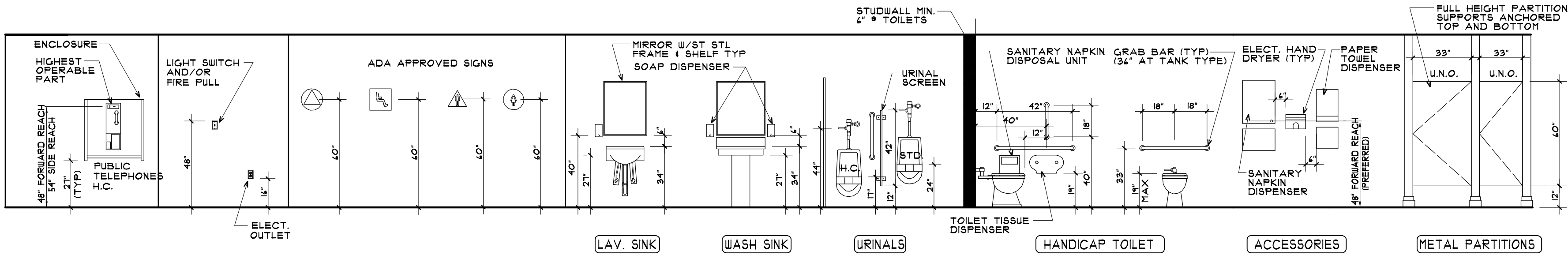
NO.	ROOM NAME	FLOOR	BASE	WALL FINISHES			CEILING		REMARKS
				NORTH	EAST	SOUTH	MAT'L	HEIGHT	
100	ENTRY	C	C	P	P	P	ACT	9' - 0"	
101	HALLWAY	C	C	P	P	P	ACT	9' - 0"	
102	CINDY'S OFFICE	C	C	P	P/AW1	P	ACT	9' - 0"	
103	DAVID'S OFFICE	C	C	P	P	P/AW2	P	ACT	9' - 0"
104	MANAGER	C	C	P/AW1	P	P	P	ACT	9' - 0"
105	MANAGER	C	C	P	P	P/AW2	P	ACT	9' - 0"
106	HALLWAY	C	C	P	P	P	P	ACT	9' - 0"
107	MANAGER	C	C	P/AW1	P	P	P	ACT	9' - 0"
108	MANAGER	C	C	P	P	P/AW2	P	ACT	9' - 0"
109	OFFICE	C	C	P/AW1	P	P	P	ACT	9' - 0"
110	WOMEN'S RR	CT	CT	CT/P	CT/P	CT/P	GD	8' - 0"	
111	HALLWAY	C	C	P	P	P	P	ACT	9' - 0"
112	CUSTODIAN	VCT	RUB	P	P	P	P	GD	8' - 0"
113	MEN'S RR	CT	CT	CT/P	CT/P	CT/P	GD	8' - 0"	CT WAINSCOTS ON 3 SIDES AT SINK
114	MECH/ELEC	VCT	RUB	P	P	P	P	GD	8' - 0"
115	CAD/CAM ROOM	C	C	P/AW2	P	P	P	ACT	9' - 0"
116	CONFERENCE RM	C	C	P	P	P/AW1	P	ACT	9' - 0"
117	VESTIBULE	C	C	P	P	P	P	ACT	9' - 0"
118	HALLWAY	C	C	P	P	P	P	ACT	9' - 0"
119	OFFICE	C	C	P/AW2	P	P	P	ACT	9' - 0"
120	BUSINESS	C	C	P	P	P/AW1	P	ACT	9' - 0"
121	WORK ROOM	C	C	P/AW2	P	P	P	ACT	9' - 0"
122	RECEPTION	C	C	P	P	P/AW1	P	ACT	9' - 0"

GENERAL NOTES:
FINISHES:
PAINT -
OVERALL - SHERWIN WILLIAMS, SW6105, DIVINE WHITE
ACCENT - SHERWIN WILLIAMS, SW6108, LATTE
ACCENT - SHERWIN WILLIAMS, SW1051, ANALYTICAL GRAY
METAL FRAMES - SHERWIN WILLIAMS, ALL SURFACE ENAMEL, MESA BROWN
DOOR STAIN FINISH - SHERWIN WILLIAMS, SW3119-O, BURNISHED WALNUT
BLINDS - MECO THERMO VEIL SHADE CLOTHS, 1300 SERIES DENSE BASKET WEAVE, 1302 BEIGE
CERAMIC TILE
VCT
ACOUSTICAL CEILING TILE
CARPET - SUU STANDARD
BASE - SUU STANDARD, CARPET BASE

ABBREVIATIONS
ACT - ACOUSTICAL TILE
RUB - RUBBER BASE 4"
CT - CERAMIC TILE
VCT - VINYL COMPOSITION TILE
GB - GYPSUM DRYWALL
P - PAINT
C - CARPET



1 DETAIL
NOT TO SCALE



NOTE:
IF ENCLOSURES ARE USED AND PROTRUDE OUT FROM THE WALL THE MAX. PROJECTION SHALL BE 1/4\"/>

SIGNS TO BE CENTERED ON DOORS AND BE DISTINCTLY DIFFERENT THAN DOORS IN COLOR AND CONTRAST

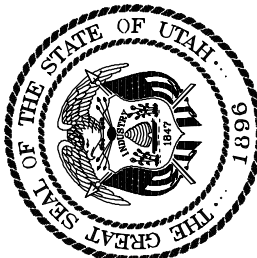
INSULATE ALL EXPOSED HOT WATER AND DRAIN LINES

NOTES:
1. CONTRACTOR TO PROVIDE BLOCKING/BACKING FOR ALL ACCESSORIES. BLOCKING AT GRAB BARS TO WITHSTAND A 250 LB./FT. LOAD.
2. DRINKING FOUNTAINS, TOILETS & URINALS ARE TO BE MOUNTED AS PER MANUFACTURERS RECOMMENDATIONS FOR STANDARD UNITS UNLESS THEY ARE DESIGNATED TO BE FOR HANDICAPPED USE. H.C. ACCESSIBLE UNITS TO BE MOUNTED AS SHOWN ABOVE.

ADA ACCESSIBLE MOUNTING HEIGHTS
NOT TO SCALE

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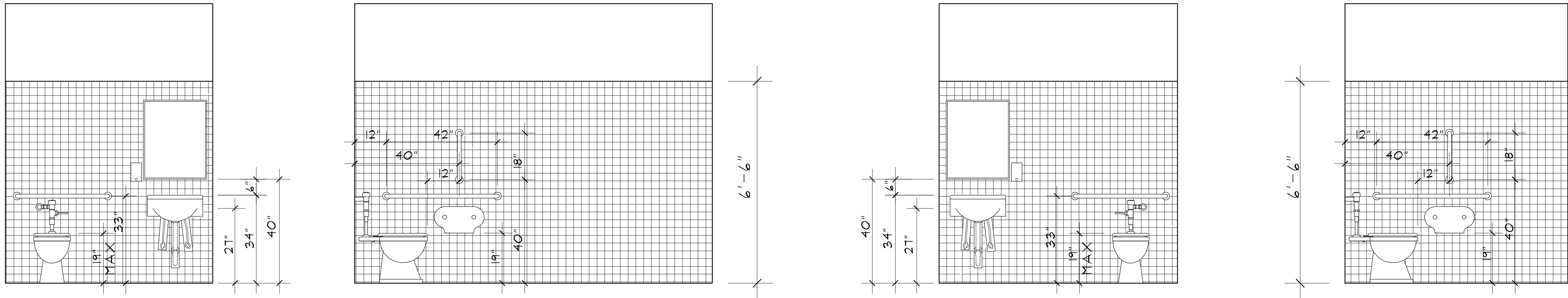
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MANAGEMENT
SILVERDALE**

Sheet Title:
**FINISH
SCHEDULE**

Revisions:

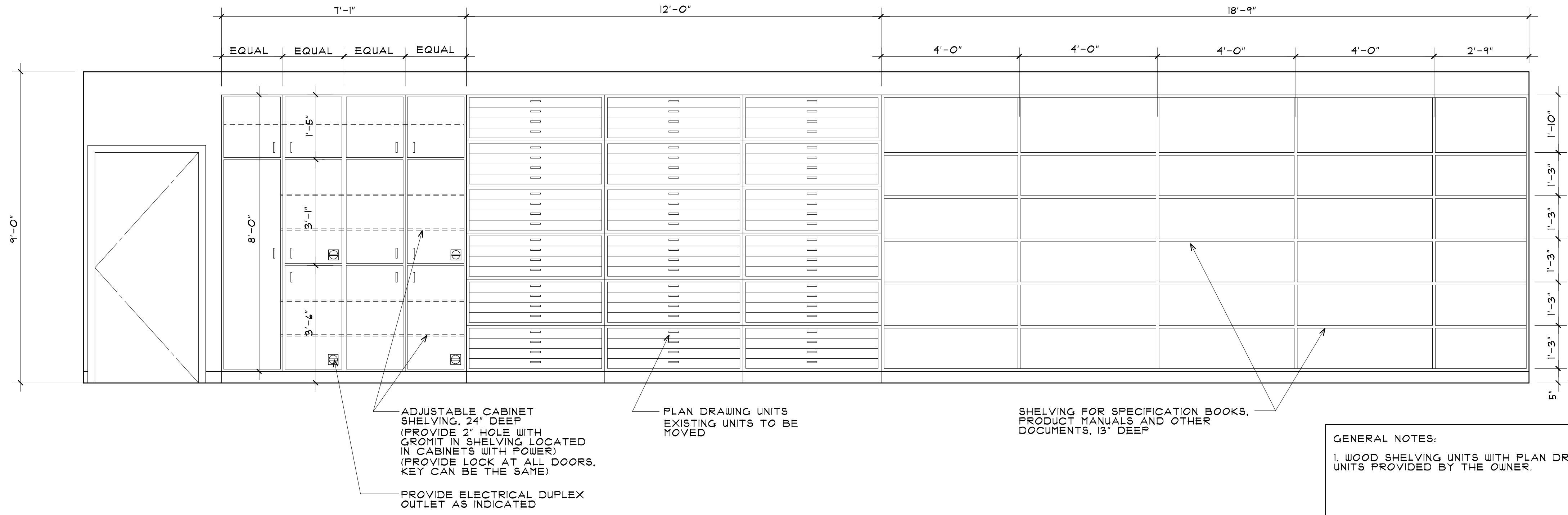
PROJECT NUMBER: 071483
DATE: 05.30.08
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APPROVED BY: J.C.S.

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SHEET NUMBER:
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① MEN'S RESTROOM ② MEN'S RESTROOM ③ WOMEN'S RESTROOM ④ WOMEN'S RESTROOM

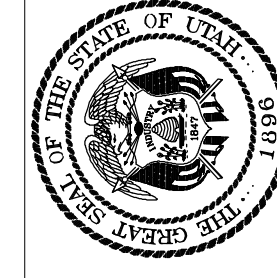
① INTERIOR ELEVATIONS - RESTROOMS
SCALE: 1/2"=1'-0"



② INTERIOR ELEVATIONS - CAD/CAM SHELVEING
SCALE: 1/2"=1'-0"

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Project:
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OFFICE

Sheet Title:
INTERIOR
ELEVATIONS

Revisions:

PROJECT NUMBER: 071483
DATE: 05.30.08
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APPROVED BY: J.C.S.

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SHEET NUMBER:
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DOOR TYPE

1

3'-0"

1'-0"

A

EXTERIOR ALUMINUM

3'-0"

1'-0"

B

INTERIOR WOOD

2

3'-0"

1'-0"

C

INTERIOR HOLLOW METAL

3'-0"

1'-0"

D

EXTERIOR HOLLOW METAL

2

3'-0"

1'-0"

E

INTERIOR WOOD

KEY NOTES:
⊗ KEY NOTE MARK
1. TEMPERED GLASS
2. LOUVER WHERE REQUIRED

WINDOW TYPES

EQ.

EQ.

EQ.

EQ.

4'-0"

5'-4"

A

EXTERIOR ALUMINUM

2

2

4'-4"

3'-9"

B

INTERIOR HOLLOW METAL

KEY NOTES:
⊗ KEY NOTE MARK
1. TEMPERED GLASS
2. SLIDING GLASS

FRAME TYPE

1

2'-11 1/2"

3'-0"

2'-1 1/2"

1'-0"

2"

1'-3"

4'-2"

10"

A

EXTERIOR ALUMINUM

3'-0"

2"

1'-0"

4"

B

EXTERIOR HOLLOW METAL

1

2'-11 1/2"

3'-5"

2"

1'-0"

2"

3'-0"

3'-0"

3"

C

INTERIOR ALUMINUM

3'-0"

2"

1'-0"

2"

3'-0"

3"

D

INTERIOR WOOD

1

2

3'-0"

3'-11 3/4"

3'-9"

3"

1'-0"

2"

3'-0"

3"

E

INTERIOR WOOD

KEY NOTES:
⊗ KEY NOTE MARK
1. TEMPERED GLASS
2. SLIDING GLASS

DOOR SCHEDULE

NO.	WIDTH	HEIGHT	THICK.	DOOR MAT'L	DOOR TYPE	DOOR GLASS	FRAME MAT'L	FRAME TYPE	DETAILS			HARD-WARE	LABEL	REMARKS
									HEAD	JAMB	SILL			
100	3'-0"	1'-0"	1 3/4"	ALUM	A	TEMP	ALUM	A	4/A11.30	5/A11.30	6/A11.30	*	*	*
101	3'-0"	1'-0"	1 3/4"	ALUM	A	TEMP	ALUM	C	10/A11.30	11/A11.30	12/A11.30	*	*	*
102	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	E	1/A11.30	8/A11.30	9/A11.30	*	*	*
103	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
104	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
105	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
106	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
107	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
108	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
109	3'-0"	1'-0"	1 3/4"	HM	E	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
110	3'-0"	1'-0"	1 3/4"	HM	E	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
111	3'-0"	1'-0"	1 3/4"	HM	E	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
112	3'-0"	1'-0"	1 3/4"	HM	C	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
113	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
114	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
115	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
116	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
117	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
118	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
119	3'-0"	1'-0"	1 3/4"	HM	D	NA	HM	B	1/A11.30	2/A11.30	3/A11.30	*	*	*
120	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
121	3'-0"	1'-0"	1 3/4"	HM	B	NA	HM	D	1/A11.30	8/A11.30	9/A11.30	*	*	*
GENERAL NOTES:														
ABBREVIATIONS: HW - HARDWARE, SEE SPEC HM - HOLLOW METAL TEMP - TEMPERED GLASS ALUM - ALUMINUM														

SARGENT DESIGN GROUP

ARCHITECTURE | PLANNING

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SEAL OF THE STATE OF UTAH
1896

State of Utah-Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT
4110 State Office Building/Salt Lake City, Utah 84143/308-3018

Project: UTAH FACILITIES COUNCIL SALT LAKE

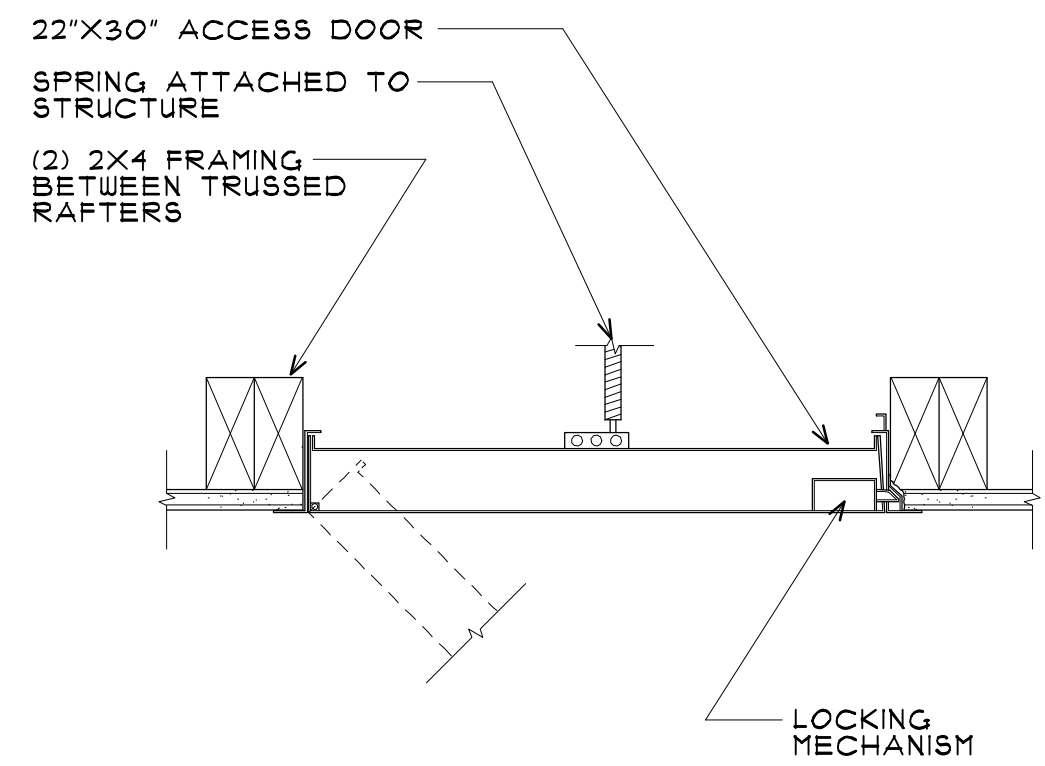
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SCHEDULES,
DOOR AND
WINDOW
TYPES

Revisions:

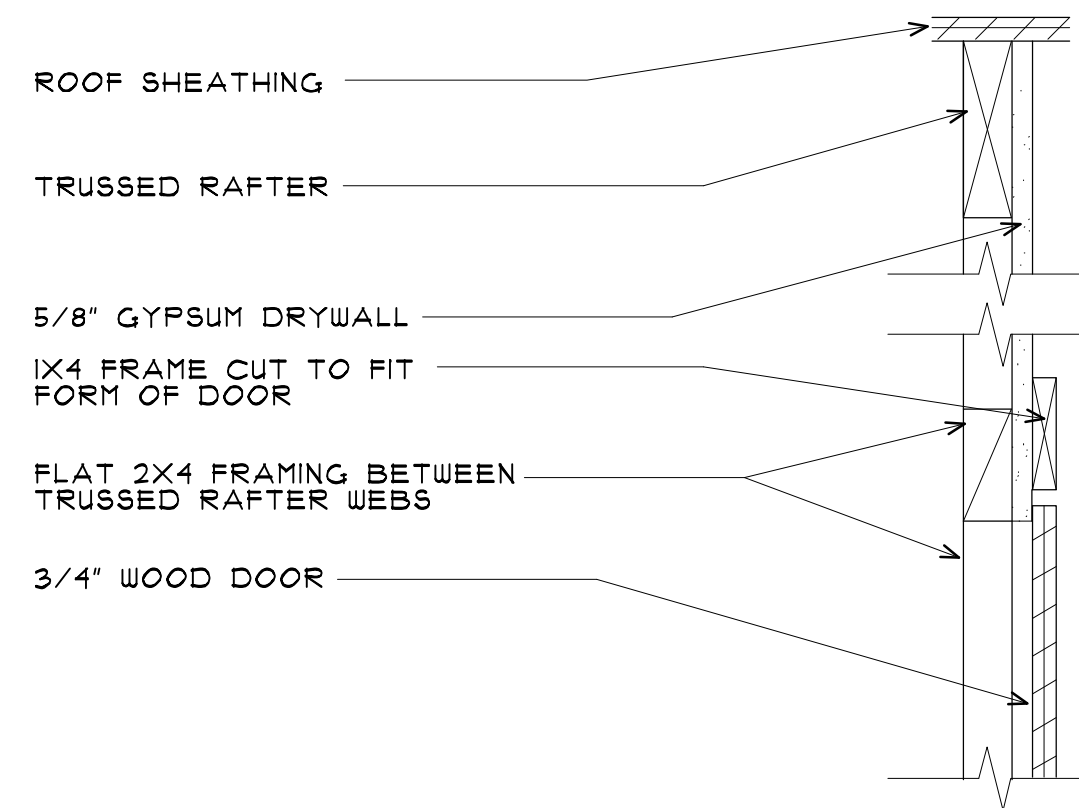
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CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

A11.10

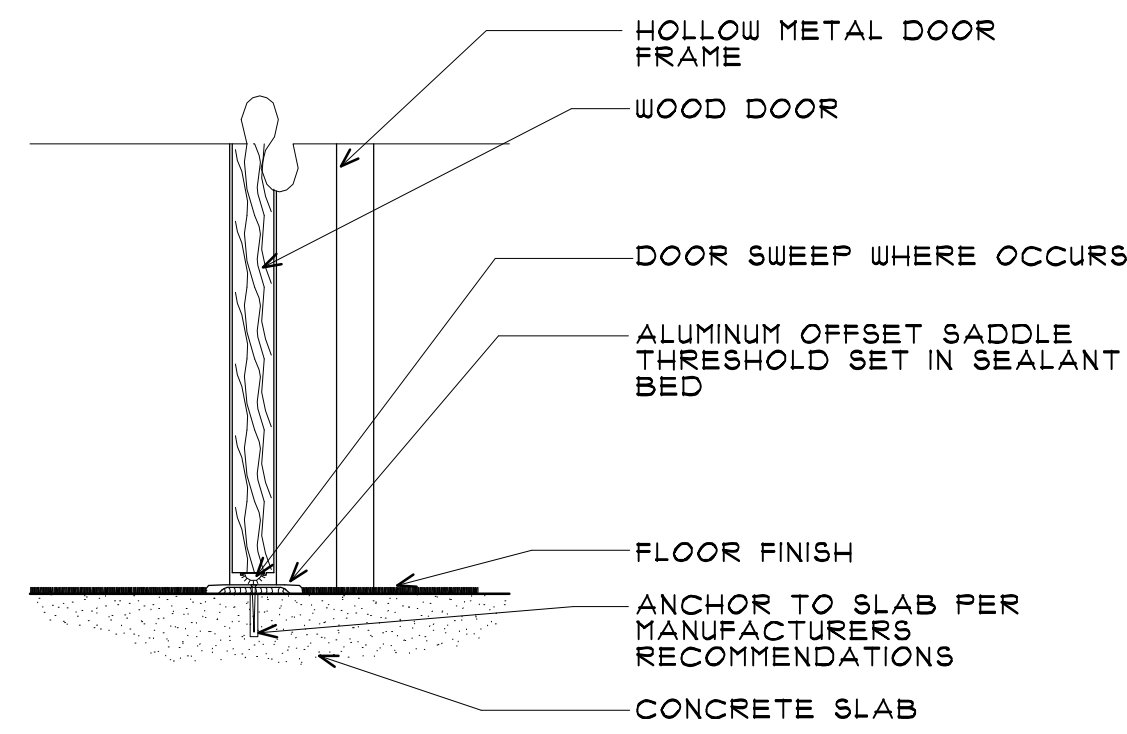
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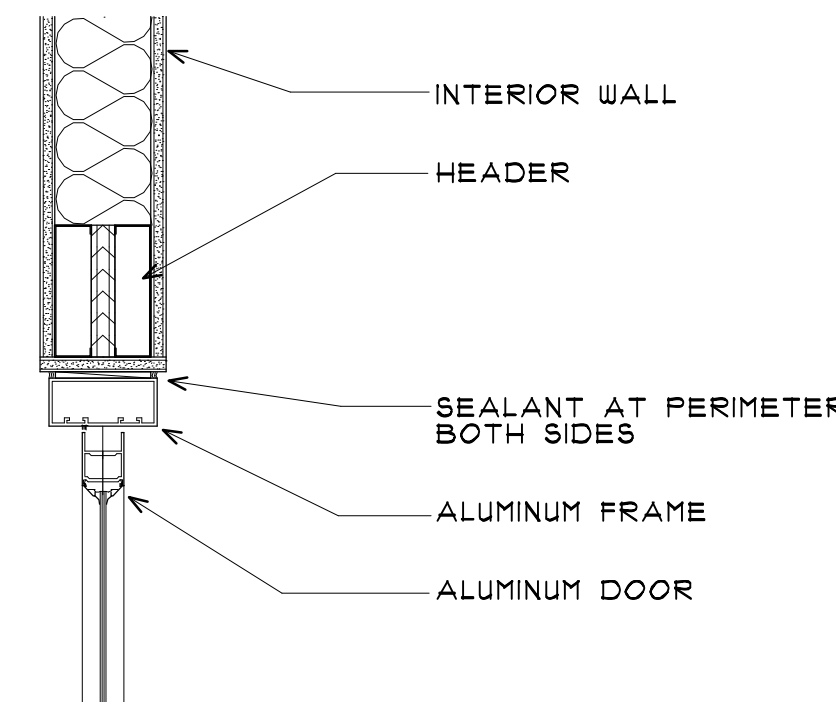


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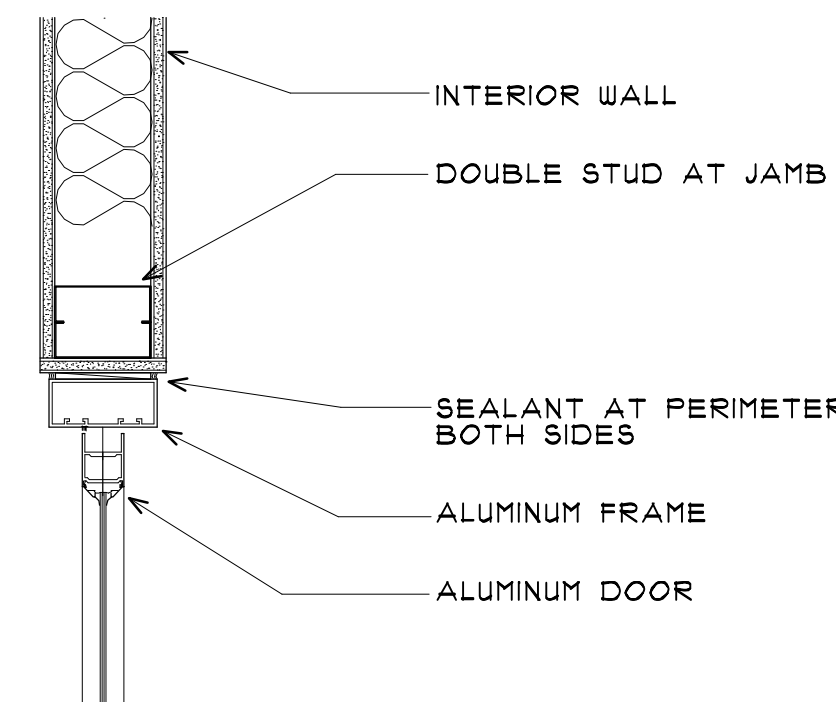


GENERAL NOTES:
1. THRESHOLD AT DISSIMILAR FLOOR FINISHES.

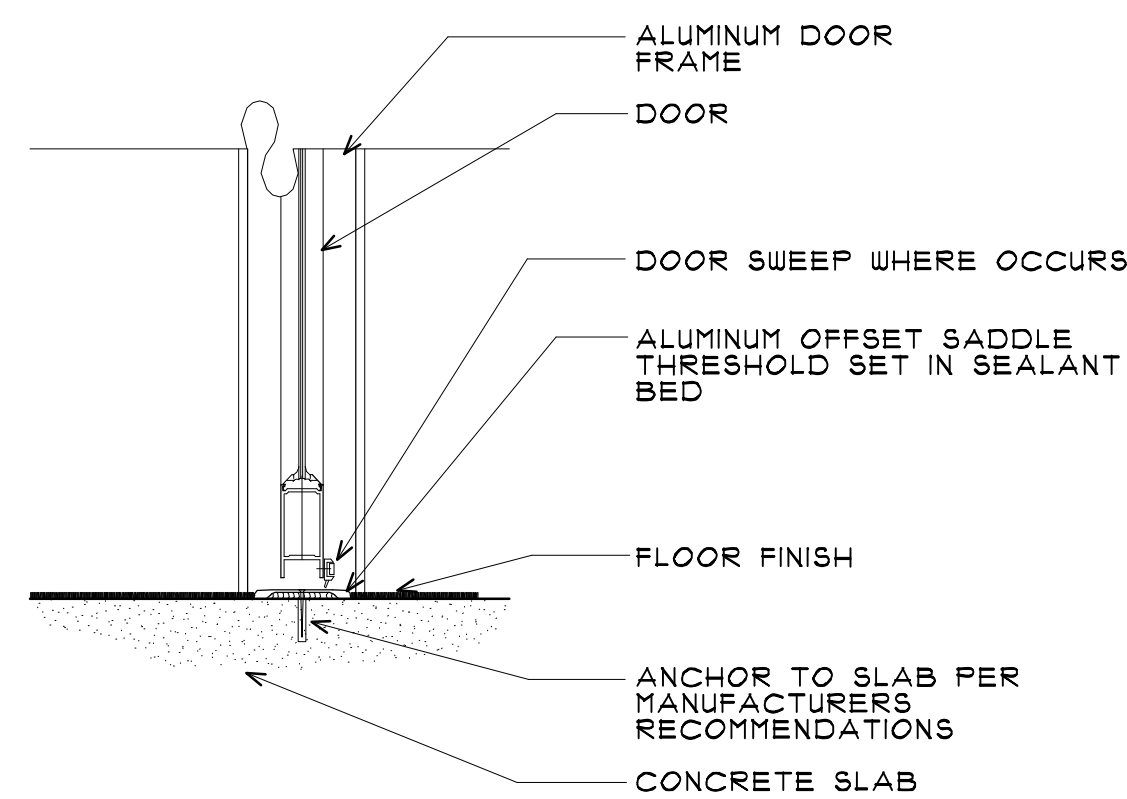
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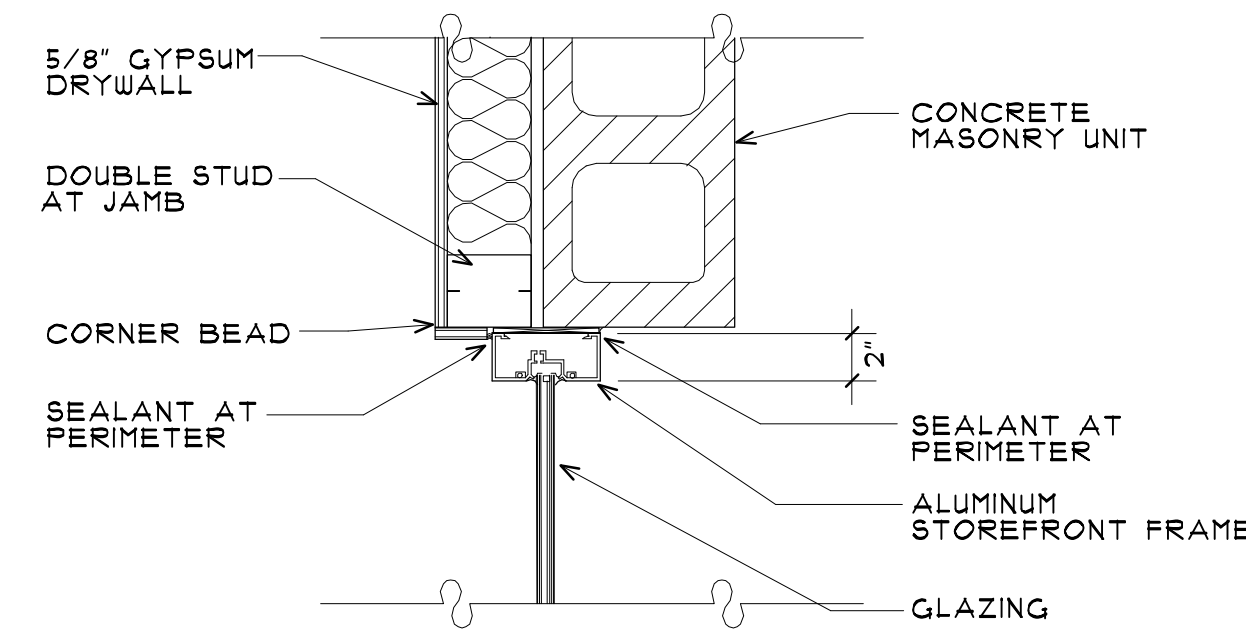
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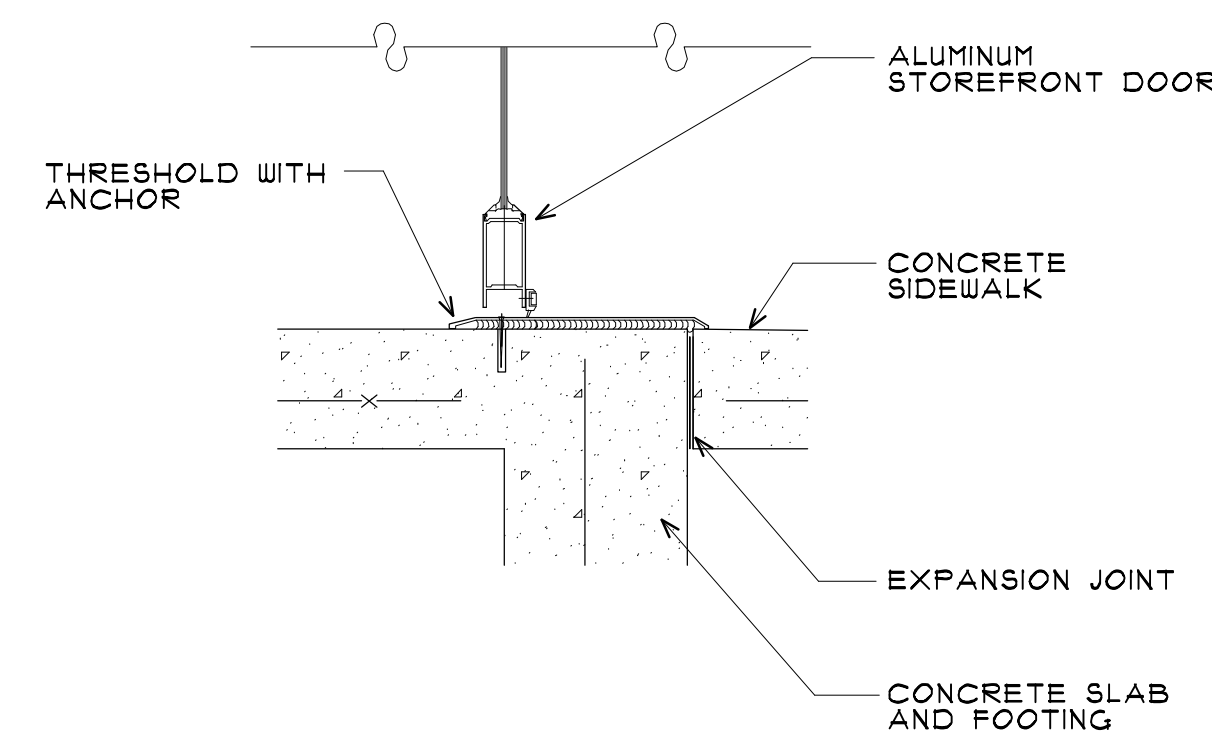
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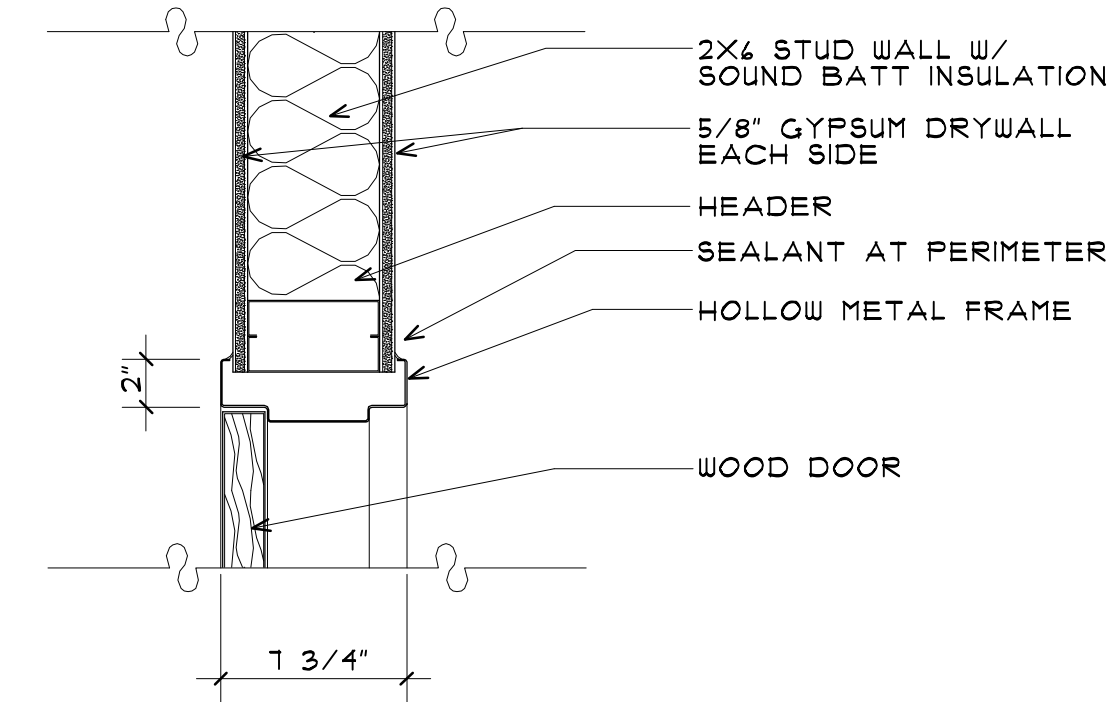
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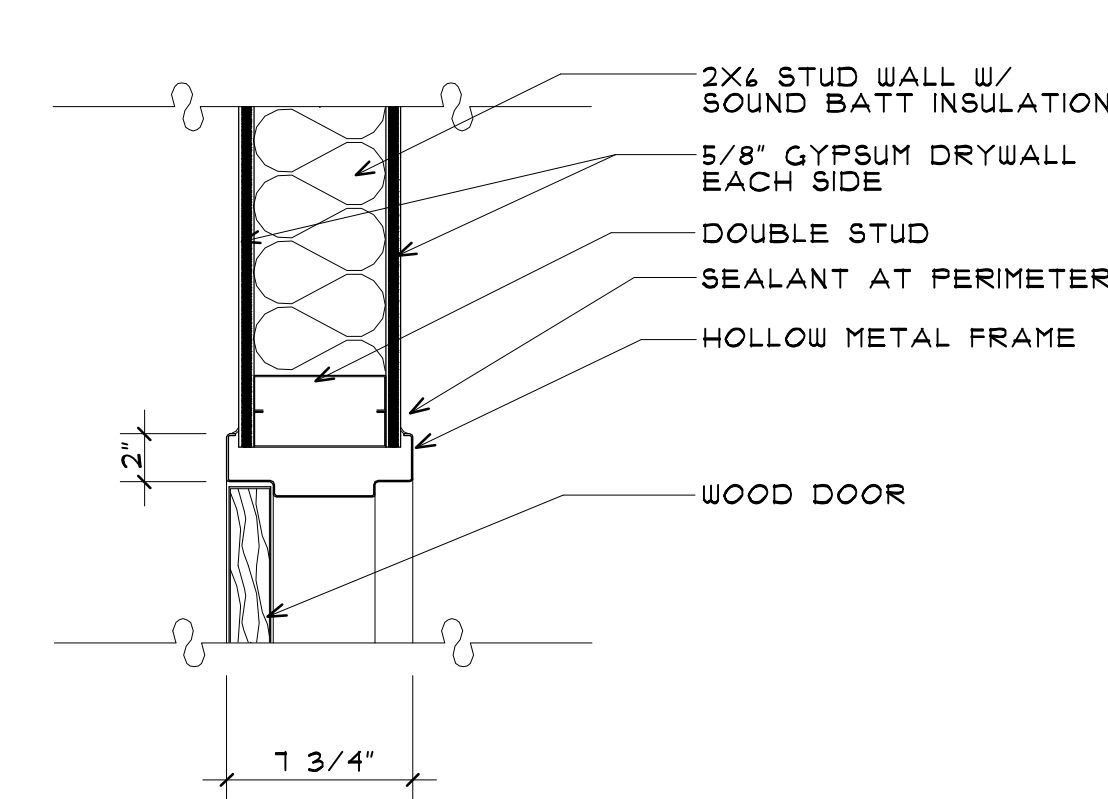
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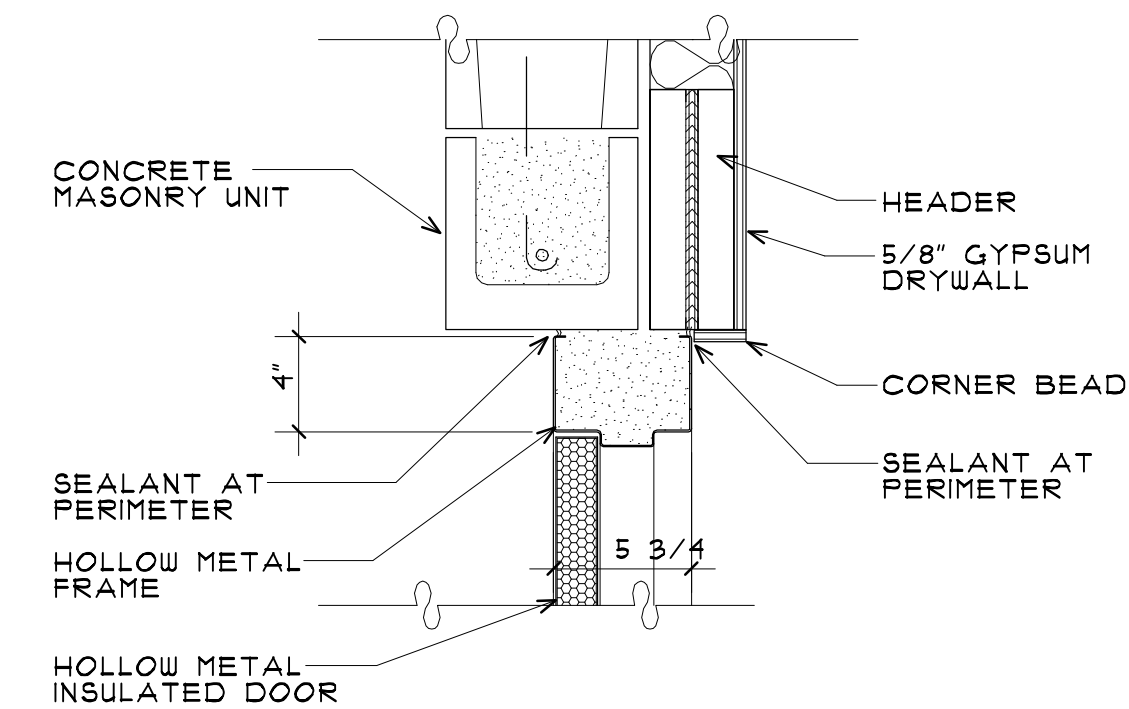
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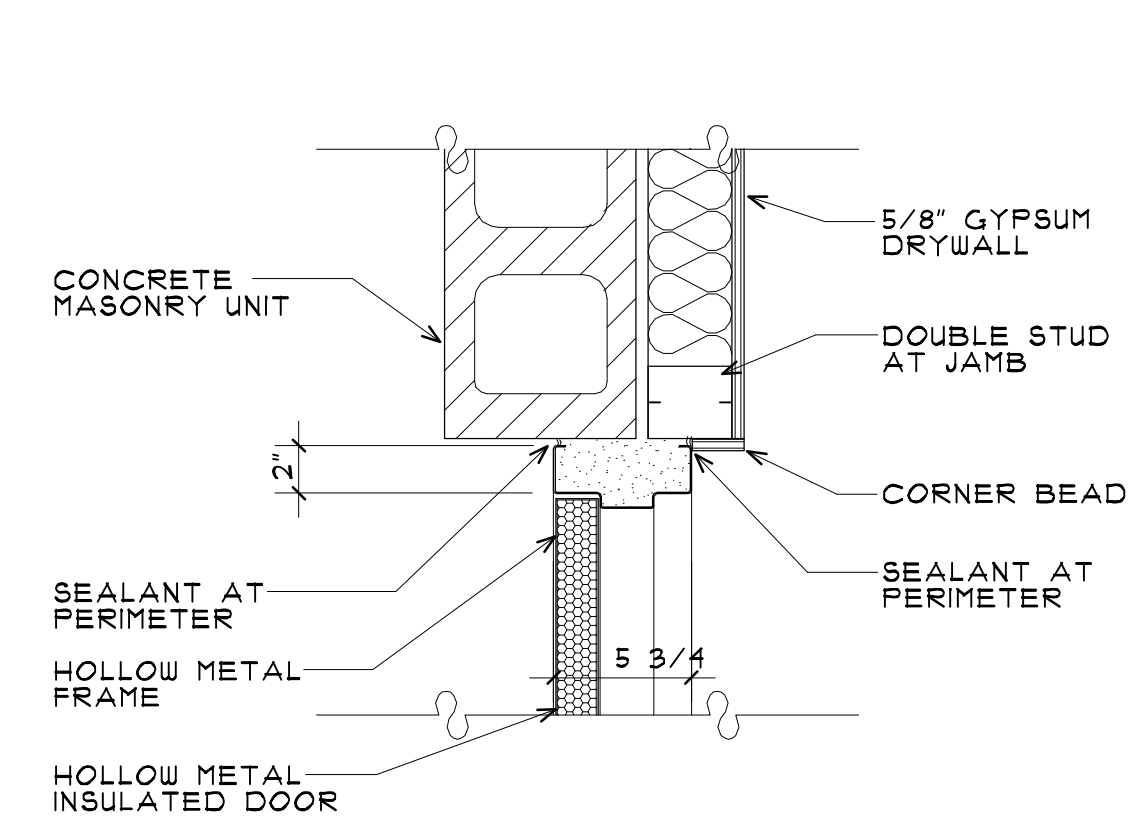
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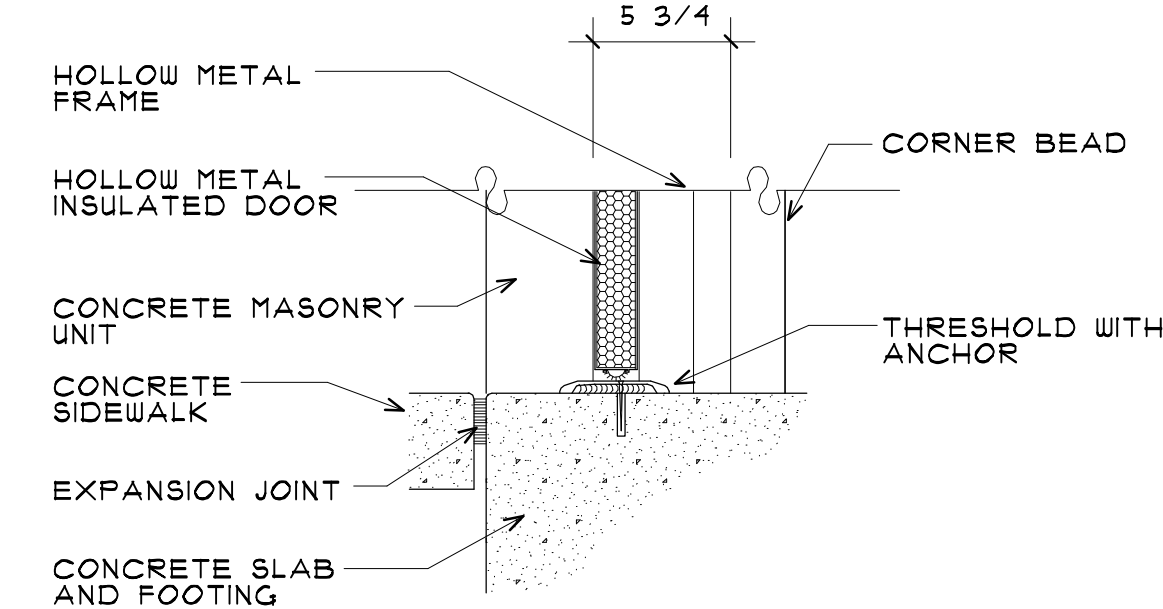
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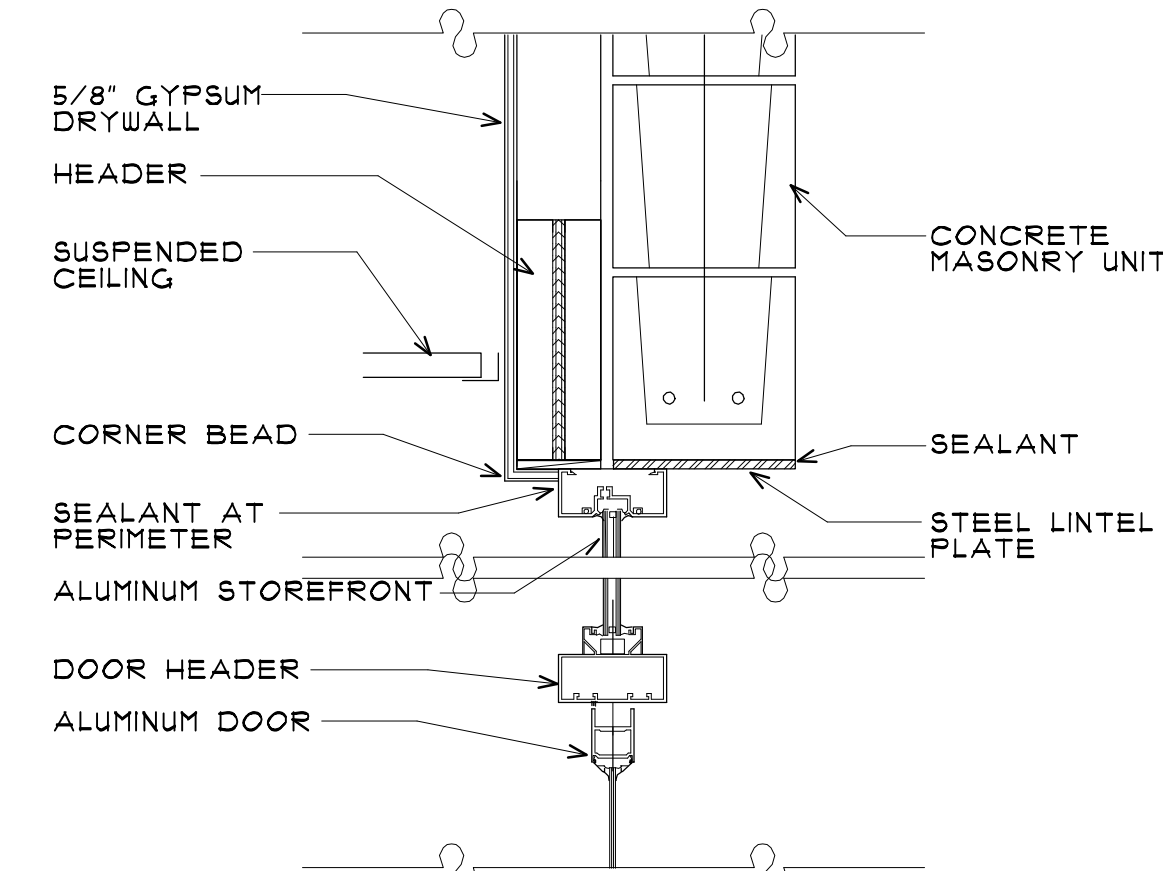
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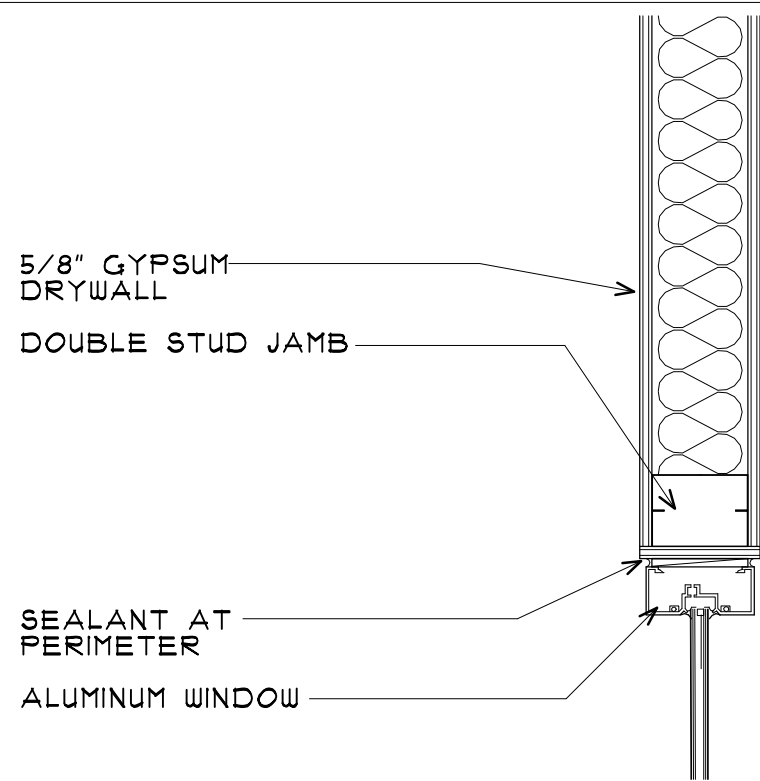
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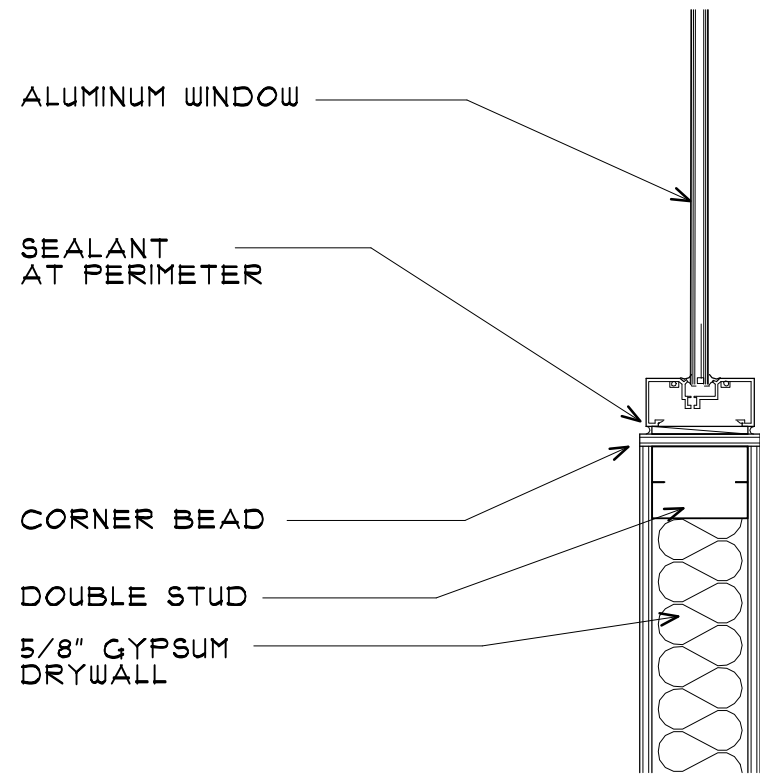
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SCALE: 1 1/2"=1'-0"



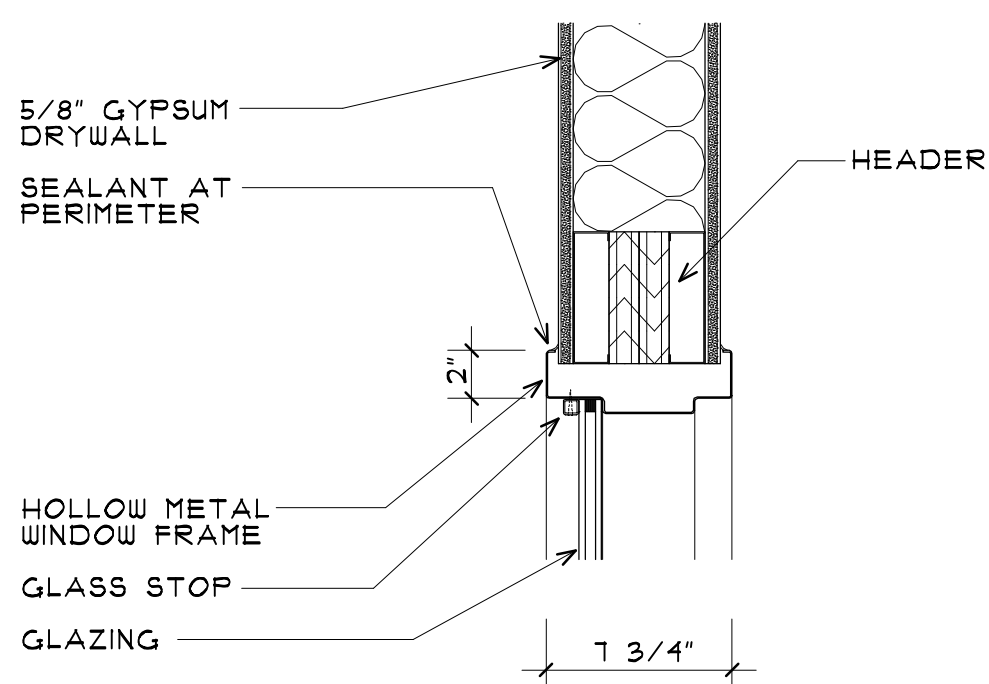
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SCALE: 1 1/2"=1'-0"



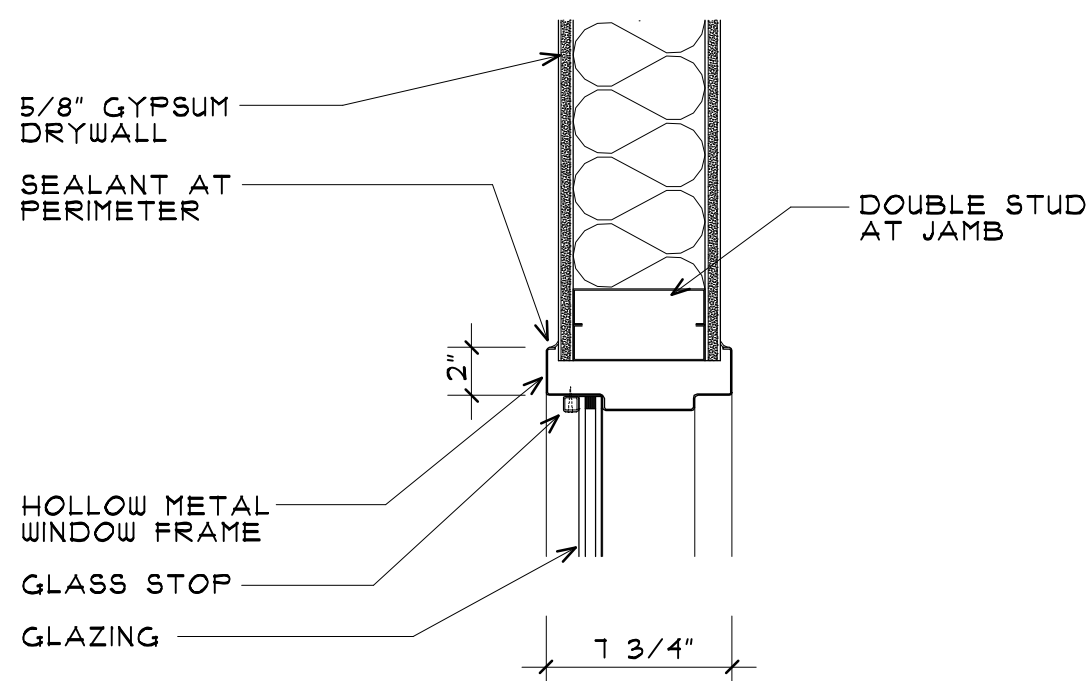
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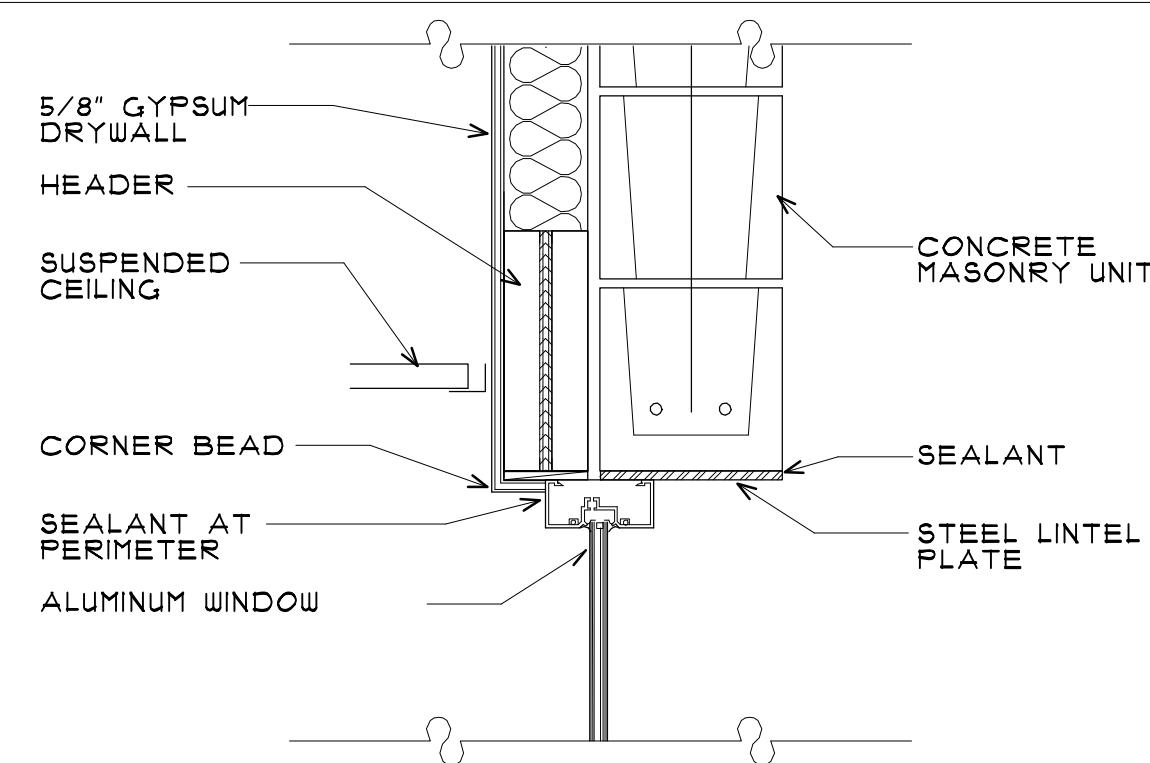
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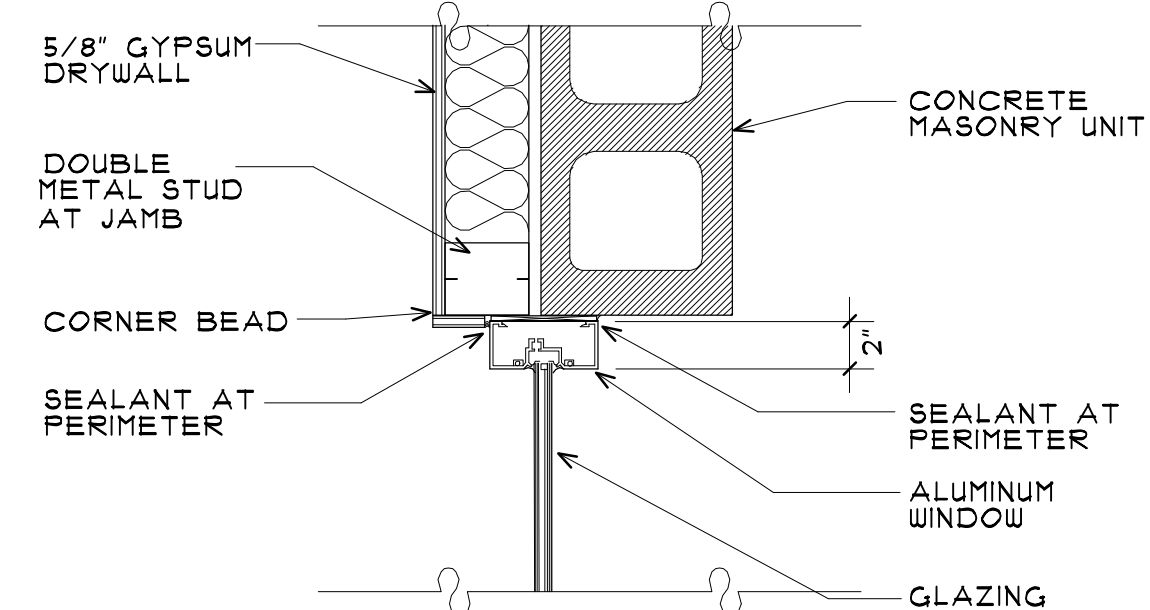
7 DETAIL - WINDOW HEAD
SCALE: 1/2" = 1'-0"



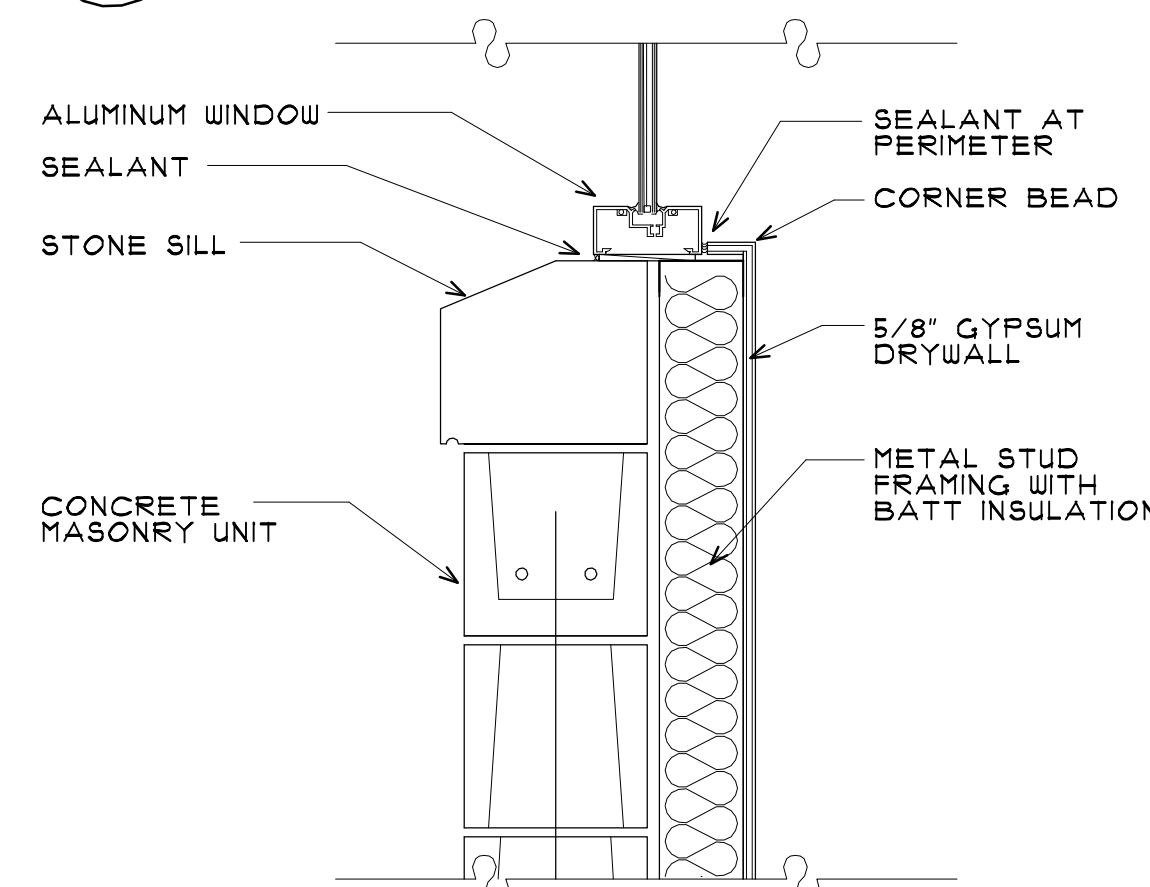
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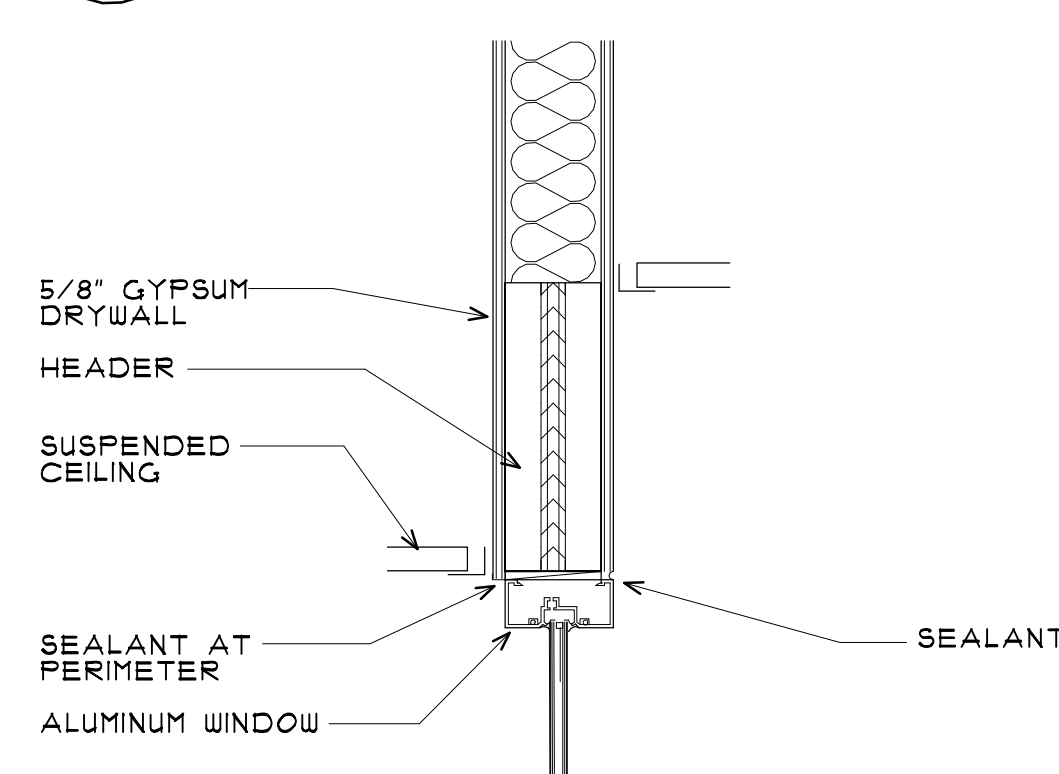
1 DETAIL - WINDOW HEAD
SCALE: 1/2" = 1'-0"



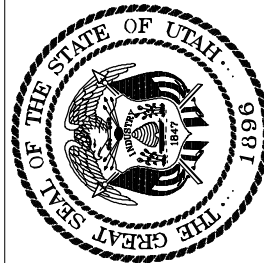
2 DETAIL - WINDOW JAMB
SCALE: 1/2" = 1'-0" J213.002



3 DETAIL - WINDOW SILL
SCALE: 1/2" = 1'-0"



4 DETAIL - WINDOW HEAD
SCALE: 1/2" = 1'-0"



GENERAL

1. THE PROJECT SPECIFICATIONS ARE NOT SUPERSEDED BY THESE GENERAL STRUCTURAL NOTES BUT ARE INTENDED TO BE COMPLIMENTARY TO THEM. CONSULT THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS IN EACH SECTION. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES, TYPICAL DETAILS AND SPECIFICATIONS.
2. CONTRACTOR SHALL COMPARE ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND AT SITE. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.
3. ALL DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
4. SHORING AND BRACING REQUIREMENTS:
- A. ROOF STRUCTURES – THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE METHOD AND SEQUENCE OF ALL STRUCTURAL ERECTION. HE SHALL PROVIDE TEMPORARY SHORING AND BRACING AS HIS METHOD OF ERECTION REQUIRES TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT. SHORING AND BRACING SHALL REMAIN IN PLACE AS THE CHOSEN METHOD REQUIRES UNTIL ALL PERMANENT MEMBERS ARE IN PLACE AND ALL FINAL CONNECTIONS ARE COMPLETED, INCLUDING ALL ROOF AND FLOOR ATTACHMENTS. THE BUILDING SHALL NOT BE CONSIDERED STABLE UNTIL ALL CONNECTIONS ARE COMPLETE.
- B. WALLS ABOVE GRADE SHALL BE BRACED UNTIL THE STRUCTURAL SYSTEM IS COMPLETE. WALLS ARE NOT SELF SUPPORTING.
5. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE WITH ALL TRADES ANY AND ALL ITEMS THAT ARE TO BE INTEGRATED INTO THE STRUCTURAL SYSTEM. OPENINGS OR PENETRATIONS THROUGH, OR ATTACHMENTS TO THE STRUCTURAL SYSTEM THAT ARE NOT INDICATED ON THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE COORDINATED WITH THE ARCHITECT/ENGINEER. THE ORDER OF CONSTRUCTION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT IS THE CONTRACTOR'S OBLIGATION TO PROVIDE ITEMS NECESSARY FOR HIS CHOSEN PROCEDURE.
6. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION NOR APPROVAL ON CONSTRUCTION.
7. ALL CONSTRUCTION AND INSPECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS AND SHALL NOT PROCEED WITH THE WORK INVOLVED UNTIL THE INSPECTIONS HAVE BEEN DONE.
8. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
9. THE CONTRACTOR MUST SUBMIT A WRITTEN REQUEST FOR, AND OBTAIN THE ARCHITECT'S AND /OR THE STRUCTURAL ENGINEER'S WRITTEN PRIOR APPROVAL FOR ALL CHANGES, MODIFICATIONS, AND/OR SUBSTITUTIONS.
10. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS.
11. SEE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, DOORS, WINDOWS, NONBEARING INTERIOR AND EXTERIOR WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS, RAILING, WATERPROOFING, FINISHES, CHAMFERS, KERFS, ETC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION ON/AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.
13. CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS TO MATCH DETAILS SHOWN ON DRAWINGS. IF ANY CONFLICTING CONDITIONS ARISE DURING CONSTRUCTION, CONTRACTOR MUST NOTIFY STRUCTURAL ENGINEER BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION. IF ANY CONFLICTING CONDITIONS ARISE DURING CONSTRUCTION, CONTRACTOR MUST NOTIFY STRUCTURAL ENGINEER BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.
14. THERMAL OR MOISTURE PROTECTION, FURNISHINGS, DOORS, WINDOWS, EQUIPMENT, MECHANICAL, ELECTRICAL, FINISHES, SIDING, PANELING, VENEERS ARE NOT PART OF THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER.
15. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HERON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE REQUIRED WORK.

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE IN 28 DAYS AS FOLLOWS:
- ALL CONCRETE 4000 PSI, TYPE"V" CEMENT, AND W/C LESS THAN OR EQUAL TO 0.5
2. CONCRETE DENSITY:
- A. NORMAL WEIGHT CONCRETE SHALL BE APPROXIMATELY 145 PCF.
3. MILD STEEL REINFORCING: DEFORMED BARS, ASTM A-615, GRADE 60 WITH MINIMUM YIELD STRENGTH 60 KSI.
4. REINFORCEMENT PROTECTION:
- A. CONCRETE PLACED AGAINST THE EARTH...3"
- B. CONCRETE PLACED IN FORMS BUT EXPOSED TO EARTH OR WEATHER.....1-1/2"
- C. COLUMNS, BEAMS.....1-1/2"
- D. SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER.....3/4"
5. ADMIXTURES:
- A. AIR-ENTRAINING ADMIXTURES (WHEN USED), COMPLY WITH ASTM C260.
- B. CALCIUM CHLORIDE SHALL NOT BE ADDED TO CONCRETE MIX.
6. CONSTRUCTION JOINTS AND CONTROL JOINTS:
- A. PROVIDE A CONTINUOUS TOOL ROUGHENED SURFACE TOP OF ALL WALL FOOTINGS, UNLESS NOTED OTHERWISE.
- B. ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS SHALL HAVE A CONTINUOUS 2" X 4" KEYWAY ALONG THE JOINT, UNLESS NOTED OTHERWISE, SEE DETAILS.
- C. PROVIDE REINFORCING DOWELS TO MATCH THE MEMBER REINFORCING AT THE JOINT, UNLESS NOTED OTHERWISE.
- D. SLABS AND BEAMS SHALL NOT HAVE JOINTS IN HORIZONTAL PLANE.
- E. SLABS-ON-GRADE SHALL HAVE CONSTRUCTION OR CONTROL JOINTS PLACED IN LENGTHS NOT TO EXCEED 36 TIMES THE SLAB THICKNESS IN ANY DIRECTION. CONSTRUCTION JOINTS SHALL NOT EXCEED A DISTANCE OF 125' 0" O.C. IN ANY DIRECTION.
- F. ALL CONSTRUCTION AND CONTROL JOINTS AS DETAILED OR AS APPROVED BY STRUCTURAL ENGINEER.
- G. CONTROL JOINTS SHALL BE COMPLETE WITHIN 12 HOURS OF CONCRETE PLACEMENT.
7. MINIMUM REINFORCING:
- A. WALL REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
- | WALL THICKNESS | HORIZONTAL REINF. | VERTICAL REINF. |
|----------------|-------------------|--|
| 8" | #4 @ 12" O.C. | #4 @ 32" O.C. PLUS #5 MASONRY DOWEL @ 32" O.C. |
- B. PLACE STEEL IN THE CENTER OF THE WALL (EXCEPT IN WALLS THICKER THAN 10" AND WHERE SHOWN OTHERWISE). IN ADDITION TO THE ABOVE REINFORCING, 2-#5 X CONTINUOUS HORIZONTAL BARS SHALL BE PLACED AT THE BOTTOM OF THE WALL (NEAR THE FOOTING) AND AT THE TOP OF THE WALL.
8. NO SPLICES OF REINFORCEMENT PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS, 57 BAR DIAMETERS MINIMUM.
9. PROVIDE ACCESSORIES RECOMMENDED BY THE CRSI NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLANS.
10. DETAIL BARS IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES", CONCRETE REINFORCING STEEL INSTITUTE (CRSI) RECOMMENDATIONS, AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.
11. PLACE 2- #5 WITH 2'-0" PROJECTION AROUND OPENINGS IN CONCRETE.
12. CONTINUOUS TOP AND BOTTOM BARS IN WALLS SPLICED AS FOLLOWS:
- A. TOP BARS – AT MIDSPAN
- B. BOTTOM BARS – OVER SUPPORT
13. ALL VERTICAL REINFORCING SHALL BE DOWELED TO FOOTINGS, OR THE STRUCTURE BELOW. DOWELS SHALL BE THE SAME SIZE AND AT THE SAME SPACING AS THE VERTICAL WALL REINFORCING SCHEDULED FOR THE WALL ABOVE. LAP LENGTHS SHALL COMPLY AS NOTED ABOVE OR AS SHOWN IN THE DRAWINGS. DOWELS EXTENDING INTO FOOTINGS SHALL TERMINATE WITH A 90 DEGREE STANDARD ACI HOOK AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING.
14. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT ENDS OF WALLS, CORNERS AND OPENINGS INTO THE FAR END OF THE JAMB COLUMN WITH A 90 DEGREE HOOK + 6 BAR DIAMETER EXTENSION, UNLESS SHOWN OTHERWISE. LAP HORIZONTAL BARS SPLICES AS NOTED ABOVE OR AS SHOWN ON THE DRAWINGS. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THROUGH CONSTRUCTION AND CONTROL JOINTS. SPLICES IN HORIZONTAL REINFORCEMENT SHALL BE STAGGERED. SPLICES IN TWO CURTAINS WHERE USED SHALL NOT OCCUR IN THE SAME LOCATION.
15. NO WELDING OF REINFORCEMENT SHALL BE PERMITTED UNLESS APPROVED BY STRUCTURAL ENGINEER.
16. ALL FORMWORK SHALL COMPLY WITH REQUIREMENTS OF ACI STANDARD PUBLICATION NO 347. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CARE, DETAILING, PLACEMENT AND REMOVAL OF ALL FORMWORK AND SHORING.
17. CONTRACTOR SHALL COORDINATE PLACEMENT OF ALL OPENINGS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO CONCRETE PLACEMENT. NO ALUMINUM CONDUIT OR PRODUCT CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO CONCRETE SHALL BE EMBEDDED IN CONCRETE.
18. THE SAMPLES FOR TESTS OF EACH STRENGTH OF CONCRETE SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARD OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FT. OF SURFACE AREA FOR SLABS OR WALLS, NOR LESS THAN FIVE TIMES THROUGHOUT THE PROJECT.

MASONRY

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT BASED ON MINIMUM NET AREA SHALL BE 1900 (LIGHTWEIGHT GRADE N). MASONRY TO DEVELOP MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'M) OF 1500 PSI.
2. MORTAR SHALL BE TYPE (S) ACCORDING TO IBC SECTION 2103.8 AND SHALL COMPLY WITH ASTM C 270. AGGREGATES USED IN MORTAR SHALL COMPLY WITH ASTM C 144. ADDITIVES OR ADMIXTURES SHALL NOT BE USED IN MORTAR MIX.
3. GROUT FOR CONCRETE MASONRY UNIT SHALL BE PROPORTIONED ACCORDING TO IBC SECTION 2103.10.7 AND SHALL DEVELOP COMPRESSIVE STRENGTH OF 2000 PSI WITHIN 28 DAYS. AGGREGATES USED IN GROUT SHALL BE SAND AND GRAVEL AND SHALL COMPLY WITH ASTM C 404. ADDITIVES OR ADMIXTURES SHALL NOT BE USED IN GROUT MIX.
4. REINFORCEMENT USED IN MASONRY CONSTRUCTION SHALL BE DEFORMED BARS, ASTM A-615 GRADE 60 (FY=60 K.S.I.). ALL REINFORCEMENT, ANCHOR BOLTS AND HEADED STUDS SHALL BE SET IN SOLID GROUTED CELLS. GROUTING SHALL COMPLY WITH IBC SECTION 2104. GOUT SHALL BE MECHANICALLY CONSOLIDATED ACCORDING TO ACI 530.1/ASCE 6/TMS 602.3.5.
6. SPLICES ARE NOT PERMITTED IN REINFORCING BARS EXCEPT AS DETAILED OR AUTHORIZED BY STRUCTURAL ENGINEER. WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS, A MINIMUM OF 48 BAR DIAMETERS.
7. MINIMUM REINFORCING:
- A. ALL MASONRY WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS:
- CMU WALLS: #5 VERTICAL AT 32" O.C. (1) -#4 HORIZONTAL AT 24" O.C. SOLID GROUTED
- B. IN ADDITION TO THE ABOVE REINFORCING, LADDER-TYPE WIRE JOINT REINFORCING (DUR-0-WALL) CONSISTING OF 2-#9 WIRES SHALL BE USED HORIZONTALLY AT 16" O.C. IN ALL MASONRY WALLS. JOINT REINFORCING SHALL BE THE STANDARD WIDTH FOR THE WALL THICKNESS IT IS REINFORCING.
8. REINFORCEMENT PROTECTION (COVER):
- A. JOINT REINFORCEMENT SHALL HAVE NOT LESS THAN 5/8" MORTAR COVERAGE FROM THE EXPOSED FACE.
- B. OTHER REINFORCEMENT SHALL HAVE A MINIMUM COVERAGE OF ONE BAR DIAMETER OVER ALL THE BARS, BUT NOT LESS THAN 1-1/2". WHEN MASONRY IS EXPOSED TO WEATHER OR SOIL, MINIMUM COVERAGE SHALL BE 2".
9. CONTINUE VERTICAL REINFORCEMENT BARS IN MASONRY COLUMNS THRU FOUNDATION WALL INTO FOOTINGS WITH MATCHING BARS AND DOWELS. ENCLOSE THESE BARS WITH SAME SIZE TIES AT SAME SPACING AS IN MASONRY COLUMN. PROVIDE MATCHING DOWELS FOR VERTICAL BARS IN MASONRY WALLS TO STRUCTURE BELOW.
10. CONTINUE HORIZONTAL REINFORCEMENT IN WALLS THRU MASONRY COLUMNS AND PILASTERS. THIS REINFORCEMENT SHALL HAVE MATCHING DOWELS, CORNER BARS, AT CORNERS AND AT INTERSECTIONS OF THE WALLS WITH REQUIRED LAP LENGTHS.
11. UNLESS NOTED OTHERWISE, HOLLOW CELLS AT ALL (4) SIDES OF OPENINGS IN WALLS SHALL BE GROUTED AND REINFORCED WITH 2- #5, MINIMUM 2'-8" PROJECTION AT EACH END.
12. FILL VOIDS AND BLOCK CELLS SOLIDLY WITH GROUT A DISTANCE OF 24" EACH SIDE OF BEAM REACTIONS OR CONCENTRATED LOADS U.N.O.
13. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT MAJOR CHANGES IN WALL HEIGHT, AT CHANGES IN WALL THICKNESS, AT BUILDING CONSTRUCTION JOINTS, AND NOT FURTHER APART THAN 25 FEET ELSEWHERE. PROVIDE MATCHING CONTROL JOINTS FOR BRICK VENEER, REFER TO DETAILING ON DRAWINGS & CONSULT ARCHITECTURAL DRAWINGS FOR LOCATIONS.

MASONRY

	PRELIMINARY ACCEPTANCE TESTS
<input checked="" type="checkbox"/>	LEVEL 2 INSPECTION REQUIRED (MASONRY UNITS, WALL PRISMS)
	SUBSEQUENT TESTS (MORTAR, GROUT, FIELD WALL PRISMS)
<input checked="" type="checkbox"/>	PLACEMENT INSPECTION OF UNITS
<input checked="" type="checkbox"/>	ANCHOR BOLT PLACEMENT IN MASONRY

MISC.

<input checked="" type="checkbox"/>	EPOXY ANCHOR PLACEMENT

STRUCTURAL SPECIAL INSPECTION SCHEDULE REINFORCED CONCRETE, GROUT & MORTAR.

CONCRETE	GROUT	MORTAR	
			AGGREGATE TESTS
			REINFORCING TESTS
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MIX DESIGNS
<input checked="" type="checkbox"/>			REINFORCING PLACEMENT
			BATCH PLANT INSPECTION
			INSPECT PLACING
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CAST SAMPLES
			PICK UP SAMPLES
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COMPRESSION TESTS
<input checked="" type="checkbox"/>			ANCHOR BOLT PLACEMENT

DESIGN CRITERIA

1. GOVERNING BUILDING CODE: 2006 INTERNATIONAL BUILDING CODE (IBC)
2. GRAVITY LIVE LOADS USED IN DESIGN:
- A. ROOF.....30 PSF
- B. $l_e = 1.0$
3. SEISMIC LOADING:
- A. SEISMIC USE GROUP I
- B. SEISMIC DESIGN CATEGORY D
- C. $S_{ps} = 0.579$ $S_{p1} = 0.290$
- D. SITE CLASS = D $l_e = 1.0$
- E. $R = 5.0$
4. WIND LOADING:
- A. VELOCITY $V_{3S} = 90$ MPH $V_{FM} = 75$ MPH
- B. EXPOSURE CATEGORY.....C
- C. $l_w = 1.0$
5. FOUNDATIONS
- A. SOIL BEARING PRESSURE....2000 PSF
- B. FOUNDATION DESIGN WAS OBTAINED FROM A SOILS REPORT PREPARED BY GEM ENGINEERING, REPORT NUMBER RG0828 DATED JUNE 13, 2008. ALL EXCAVATION, FILL, COMPACTION, AND PLACEMENT PERFORMED, SHALL COMPLY WITH RECOMMENDATIONS OUTLINED IN THE ABOVE REFERENCED REPORT.

WOOD

1. ALL PLYWOOD ROOF & FLOOR DIAPHRAGMS AND SHEAR WALLS SHALL BE APA RATED STRUCTURAL SHEATHING WITH A SPAN INDEX RATING AND THICKNESS AS NOTED ON DRAWINGS. EDGE SUPPORT, IF REQUIRED BY SPAN RATING OR THE PLYWOOD AND JOIST SPACING, SHALL CONSIST OF LUMBER BLOCKING, PANEL EDGE CLIPS, OR TONGUE AND GROOVE PLYWOOD EDGES.
2. ALL MEMBERS FRAMING INTO THE SIDE OF HEADERS OR STUD WALLS SHALL BE ATTACHED USING METAL JOIST HANGERS.
3. ALL BOLTS FOR CONNECTIONS SHALL HAVE WASHERS PLACED UNDER NUTS AND HEADS. BOLT HOLES TO BE DRILLED 1/16" LARGER THAN BOLT DIAMETER.
4. MATERIALS:
- A. GLU LAM TIMBER: DOUGLAS FIR COMBINATION SYMBOL 24F-V4 FOR BEAMS (SIMPLE SPANS); 24F-V8 FOR CONTINUOUS OR CANTILEVER CONDITIONS. FB=2400 PSI, E=1,800,000 PSI.
- B. FRAMING LUMBER: NUMBER 2 DOUGLAS FIR-LARCH OR BETTER OR AS NOTED OTHERWISE; MIN FB=1035 PSI FOR REPETITIVE USE.
- C. PLYWOOD INTERIOR GRADE WITH EXTERIOR GLUE, SPAN INDEX RATIO: 24/16 (3/4") ROOF
5. NAILS: STANDARD COMMON. MINIMUM NAILING REQUIREMENTS (SEE DRAWINGS FOR AREAS WITH GREATER REQUIREMENTS):
- A. ROOF: NAIL ALL PLYWOOD PANEL EDGES WITH 10d COMMON NAILS AT 6" O.C. AT ALL PANEL EDGES AND AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS. UNLESS BLOCKING IS SPECIFICALLY REQUIRED ON THE DRAWINGS, USE TWO PLYCLIPS BETWEEN EACH SUPPORT FOR SPANS OF 48" O.C. AND ONE PLYCLIP BETWEEN EACH SUPPORT FOR LESSER SPANS AT ALL UNSUPPORTED PLYWOOD PANEL EDGES.
- B. GENERAL FRAMING AND CARPENTRY: CONNECT ALL ITEMS AS PER I.B.C. CHAPTER 23, AND TABLE 2304.9.1 UNLESS NOTED OTHERWISE.
- C. FRAMING CONNECTIONS: USE SIMPSON STRONG-TIE CONNECTORS OR APPROVED EQUIVALENT.
1. JOIST AND RAFTERS: "U" OR "F" HANGERS AS REQUIRED.
2. BEAMS: EG HANGERS AND HGLB BEAMS SEATS
3. HINGE CONNECTORS: HC JT
4. COLUMNS: CC CAPS AND CB COLUMN BASES
5. HOLD DOWN ANCHORS: HD AND FTA
6. BLOCKING, BRIDGING, AND BRACING PROVIDE SOLID BLOCKING AT LEAST 2 IN. NOMINAL THICK AND FULL DEPTH OF JOIST AT ENDS AND AT EACH SUPPORT OF JOIST. PROVIDE APPROVED BRIDGING AT A MAXIMUM OF 8'-0" O.C. BETWEEN ROOF JOIST SUPPORTS. SOLID BLOCKING BETWEEN JOISTS SHALL BE ATTACHED TO THE WOOD PLATE AT THE TOP OF THE WALL PER STRUCTURAL DETAILS.
6. LAMINATED BUILT-UP BEAMS OF 2X MEMBER 10 IN. OR LESS IN DEPTH SHALL BE SPIKED TOGETHER WITH NOT LESS THAN 16d COMMON NAILS AT TWELVE-INCH (12 IN.) CENTERS, STAGGERED UNLESS SO SPIKED, OR IF THE DEPTH OF BEAM IS MORE THAN TEN INCHES (10 IN.), THE LAMINATIONS SHALL BE CONNECTED TOGETHER WITH 1/2 IN. BOLTS AT 18 IN. O.C. STAGGERED. BOLTS SHALL BE PLACED 1/4 THE DEPTH OF THE MEMBER FROM THE TOP AND BOTTOM OF THE MEMBER.
7. FASTENERS FOR PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL MEET THE REQUIREMENTS OF IBC 2304.9.5 AND SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZ OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153.
8. PRE-FAB WOOD TRUSSES SHALL BE DESIGNED BY A UTAH REGISTERED ENGINEER. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATIONS OF TRUSSES. PROVIDE CROSS BRACING, CONNECTIONS, AND INSTALLATION AS REQUIRED BY TRUSS MANUFACTURER. TRUSS MANUFACTURER SHALL PROVIDE DESIGN, CONNECTIONS, LOCATIONS & AMOUNTS OF CONTINUOUS STRINGERS AND NAILING SCHEDULES OF GIRDERS & COMPONENTS

SPECIAL INSPECTION & NONDESTRUCTIVE TESTING REQUIREMENTS.

1. SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY AND SHALL BE PAID FOR BY THE OWNER.
2. WHERE RESULTS OF INSPECTIONS OR TESTS DO NOT INDICATE COMPLIANCE WITH CONTRACT DOCUMENTS, RE-TESTS MAY BE REQUIRED PER ENGINEER'S DISCRETION
3. FOUNDATIONS/SOILS REQUIRED DURING EARTHWORK EXCAVATIONS AND COMPACTION OPERATIONS FOR COMPLIANCE WITH REQUIREMENTS GIVEN IN SOILS REPORT.
4. CONCRETE
- A. REQUIRED DURING THE TAKING OF SPECIMENS AND PLACEMENT OF REINFORCING STEEL AND CONCRETE, AS PER IBC, SECTION 1704.4
- B. BOLTS PLACED IN CONCRETE REQUIRE INSPECTION PER IBC, SECTION 1704.4
5. EPOXY ANCHORS: CONTINUOUS INSPECTION SHALL BE PERFORMED DURING INSTALLATION.
6. STRUCTURAL MASONRY AS REQUIRED PER IBC, TABLE 1704.5.3 FOR ALL NEW MASONRY CONSTRUCTION
7. A COPY OF ALL SPECIAL INSPECTION/TESTING REPORTS SHALL BE PROVIDED TO THE BUILDING DEPARTMENT, ARCHITECT AND STRUCTURAL ENGINEER.
8. ALL THE APPROPRIATE RECORDS, CERTIFICATIONS, AND PERTINENT CREDENTIALS FOR EACH INSPECTOR, MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO COMMENCING WITH THE WORK.
9. PRE-FAB WOOD TRUSSES SHALL BE DESIGNED BY A UTAH REGISTERED ENGINEER. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATIONS OF TRUSSES. PROVIDE CROSS BRACING, CONNECTIONS, AND INSTALLATION AS REQUIRED BY TRUSS MANUFACTURER. TRUSS MANUFACTURER SHALL PROVIDE DESIGN, CONNECTIONS, LOCATIONS & AMOUNTS OF CONTINUOUS STRINGERS AND NAILING SCHEDULES OF GIRDERS & COMPONENTS

SHOP DRAWINGS SUBMITTALS

1. CONTRACTOR SHALL REVIEW AND VERIFY ALL SHOP DRAWINGS TO ASSURE THEY COMPLY WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. ENGINEER WILL REVIEW THE SHOP DRAWINGS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT. THIS REVIEW BY THE ENGINEER SHALL NOT BE CONSTRUED AS APPROVAL.
2. PROVIDE 4 SETS OF SHOP DRAWINGS TO ENGINEER FOR REVIEW FOR THE FOLLOWING BUT NOT LIMITED TO FOUNDATION & MASONRY WALL REINFORCEMENT, CONCRETE MIX DESIGN, STRUCTURAL MASONRY ELEMENTS, STRUCTURAL STEEL, AND STEEL JOIST & DECK. REFER TO ARCHITECTURAL DRAWINGS FOR SHOP DRAWING SUBMITTAL REQUIRED FOR NON-STRUCTURAL ELEMENTS.

DRILL & EPOXY ANCHORS

1. USE HIT-RE 500-SD ADHESIVE SYSTEM OR EQUIVALENT FOR CONCRETE AND SOLID GROUTED MASONRY CONNECTIONS.
2. 10% OF ALL ANCHORS PLACED SHALL BE RANDOMLY TESTED TO 110% OF MANUFACTURER SPECIFIED ALLOWABLE LOAD. IF ANY ANCHOR FAILS IT SHALL BE REPLACED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER. IF AN ANCHOR FAILS, 100 % OF ALL ANCHORS INSTALLED BY THE SAME CREW SHALL BE TESTED AT NO ADDITIONAL COST TO THE OWNER.

NOTE:

REFER TO 2006 I.B.C. CHAPTER 17 FOR ADDITIONAL INFORMATION AND ARCHITECTURAL DRAWINGS & GEOTECHNICAL REPORT FOR ADDITIONAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL ITEMS.

Project:
SUU FACILITIES
MGMT. BUILDING



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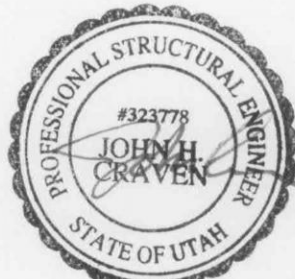
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Revisions:

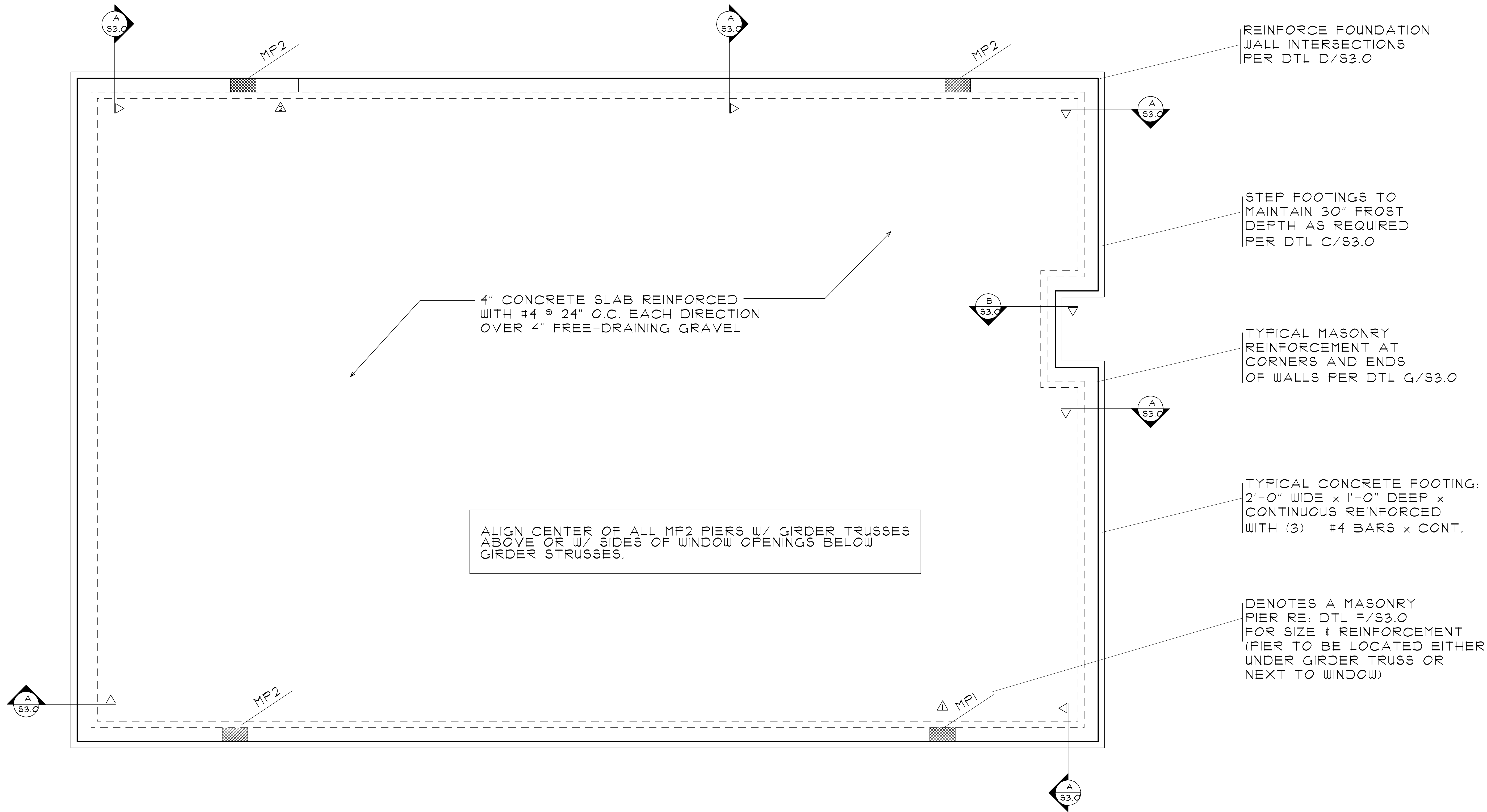
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Sheet of



7-11-08



FOUNDATION PLAN

SCALE: 1/4"=1'-0"

FOUNDATION NOTES

1. TOP OF SLAB ELEVATION = 5805'-0"
SLOPE UNIFORMLY TO FLOOR DRAINS
2. SLAB ON GRADE SHALL BE 4" CONCRETE OVER 4" FREE DRAINING GRAVEL. REINFORCE SLAB WITH #4 @24" O.C. UNLESS NOTED OTHERWISE ON PLAN
3. PLACE CONTROL JOINTS AND CONSTRUCTION JOINTS IN SLAB PER GENERAL NOTES. REFER TO DETAIL E/S3.0.
4. REFER TO PLAN FOR FOOTING SIZE AND REINFORCEMENT. REFER TO SECTIONS FOR TOP OF FOOTING ELEVATIONS
5. CENTER FOOTINGS ON WALLS AND COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS. ALL FOOTINGS SHALL BEAR ON ENGINEERED COMPACTED FILL.
6. REFER TO SECTIONS FOR TOP OF FOUNDATION WALL ELEVATIONS.
7. MASONRY PIER TYPES ARE NOTED THUS: MP-1 ON PLAN. REFER TO DETAIL F/S3.0 FOR SIZE AND REINFORCEMENT
8. REFER TO DETAIL H/S3.0 FOR EXPANSION JOINTS IN MASONRY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.
9. REFER TO DETAILS D&G/S3.0 FOR TYPICAL CONCRETE AND MASONRY WALL REINFORCEMENT DETAILS.
10. STEP FOOTINGS AS REQUIRED FOR EMBEDMENT SHOWN ON DETAILS. REFER TO DETAIL C/S3.0 FOR TYPICAL STEP IN FOOTING.
11. REFER TO ARCHITECTURAL/SITE DRAWINGS FOR INFORMATION AND LOCATION OF SITE WALLS, STEPS, PLANTERS, RAMPS, ETC.
12. REFER TO GENERAL NOTES ON SHEET S1.0 FOR ADDITIONAL INFORMATION.
13. 2'-0" OF PIT RUN TRUCTURAL FILL SHALL BE PROVIDED UNDER ALL FOOTINGS PER THE GEOTECHNICAL REPORT.

REINFORCE FOUNDATION WALL INTERSECTIONS PER DTL D/S3.0

STEP FOOTINGS TO MAINTAIN 30" FROST DEPTH AS REQUIRED PER DTL C/S3.0

TYPICAL MASONRY REINFORCEMENT AT CORNERS AND ENDS OF WALLS PER DTL G/S3.0

TYPICAL CONCRETE FOOTING: 2'-0" WIDE x 1'-0" DEEP x CONTINUOUS REINFORCED WITH (3) - #4 BARS x CONT.

DENOTES A MASONRY PIER RE: DTL F/S3.0 FOR SIZE & REINFORCEMENT (PIER TO BE LOCATED EITHER UNDER GIRDER TRUSS OR NEXT TO WINDOW)

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State of Utah-Department of Administrative Services
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Project: **UTAH FACILITIES MANAGEMENT**

Sheet Title:
FOUNDATION PLAN

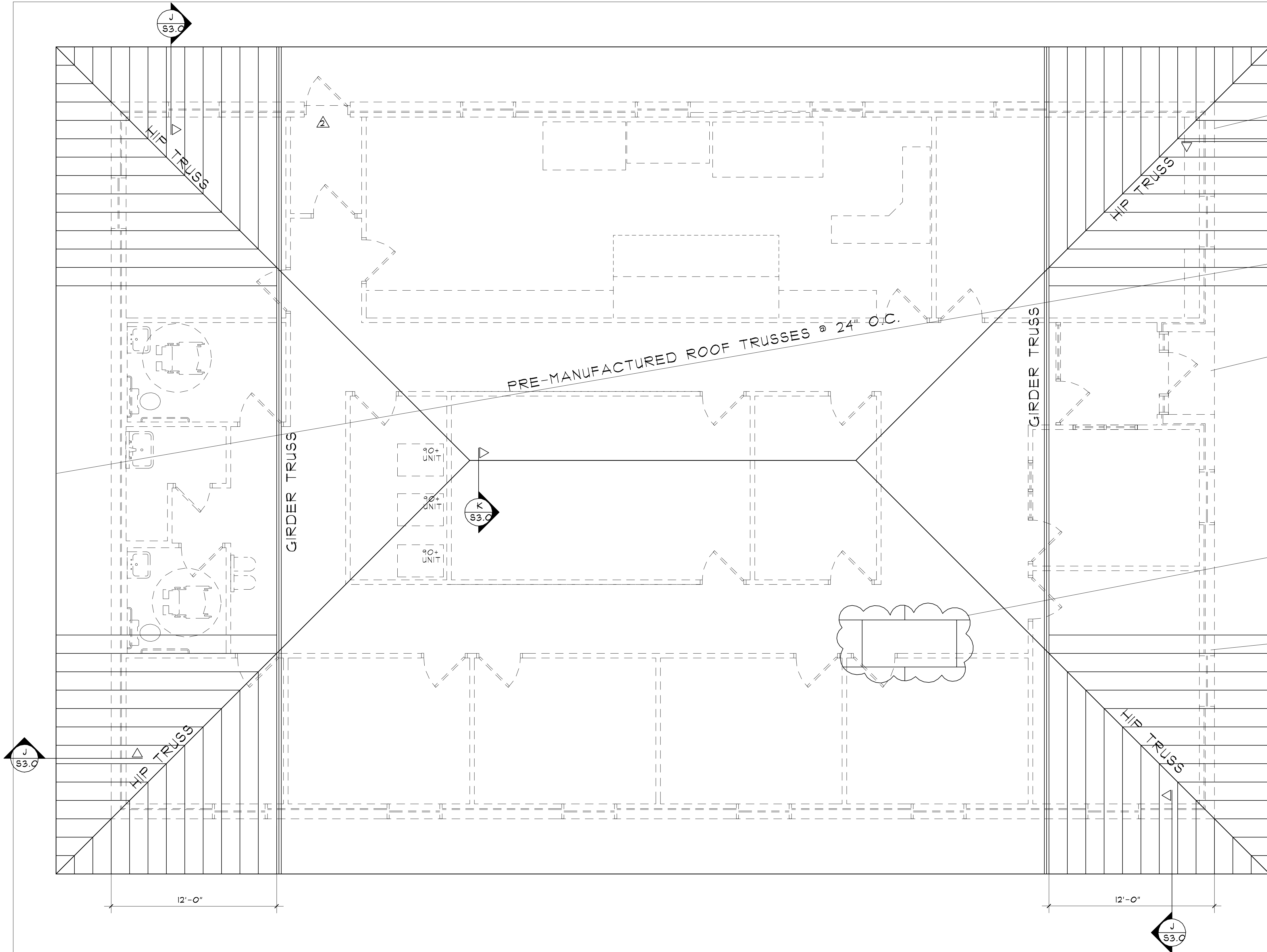
Revisions:

- △ CODE REVIEW 04.21.08
- △ CODE REVIEW 01.09.08

PROJECT NUMBER: 07507
DATE: 05.30.08
DRAWN BY: J.C.S.
CHECKED BY: J.C.S.
APPROVED BY: J.C.S.

S2.0

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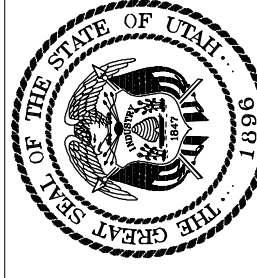
ROOF FRAMING PLAN

SCALE: 1/4"=1'-0"

WOOD ROOF FRAMING NOTES	
<div>1. T. O. MASONRY ELEVATION SHOWN ON PLAN THUS (5816'-4").</div> <div>2. ROOF SHEATHING SHALL BE 3/4" A. P. A. RATED, STRUCT. II, EXTERIOR PANEL INDEX #48/24 NAIL WITH</div> <div>10d COMMON @ 6" O. C. - PANEL EDGES</div> <div>10d COMMON @ 12" O. C. - ALL ELSE</div> <div>3. REFER TO DETAIL H/S3.0 FOR EXPANSION JOINTS IN MASONRY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS.</div> <div>4. REFER TO GENERAL STRUCTURAL NOTES ON SHEET SI.0 FOR MORE INFORMATION</div>	<div>ROOF DESIGN CRITERIA</div> <div>DL= 15 PSF</div> <div>SL= 30 PSF</div> <div>TL= 45 PSF</div>
<div>TRUSS MANUFACTURER:</div> <div>CMU WALLS ARE DESIGNED TO CARRY ROOF LOADS ACCORDING TO THE TRUSS & GIRDER LAYOUT PROVIDED.</div>	<div>NOTE:</div> <div>ROOF FRAMING PLAN DENOTES PRE-MANUFACTURED TRUSS & GIRDER LAYOUT. IF TRUSS & GIRDER LAYOUT PROVIDED ON SITE CONFLICTS WITH THIS LAYOUT, CONTACT STRUCTURAL ENGINEER IMMEDIATELY.</div>

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Project:
SALT LAKE CITY
FACILITIES
MANAGEMENT
OFFICE

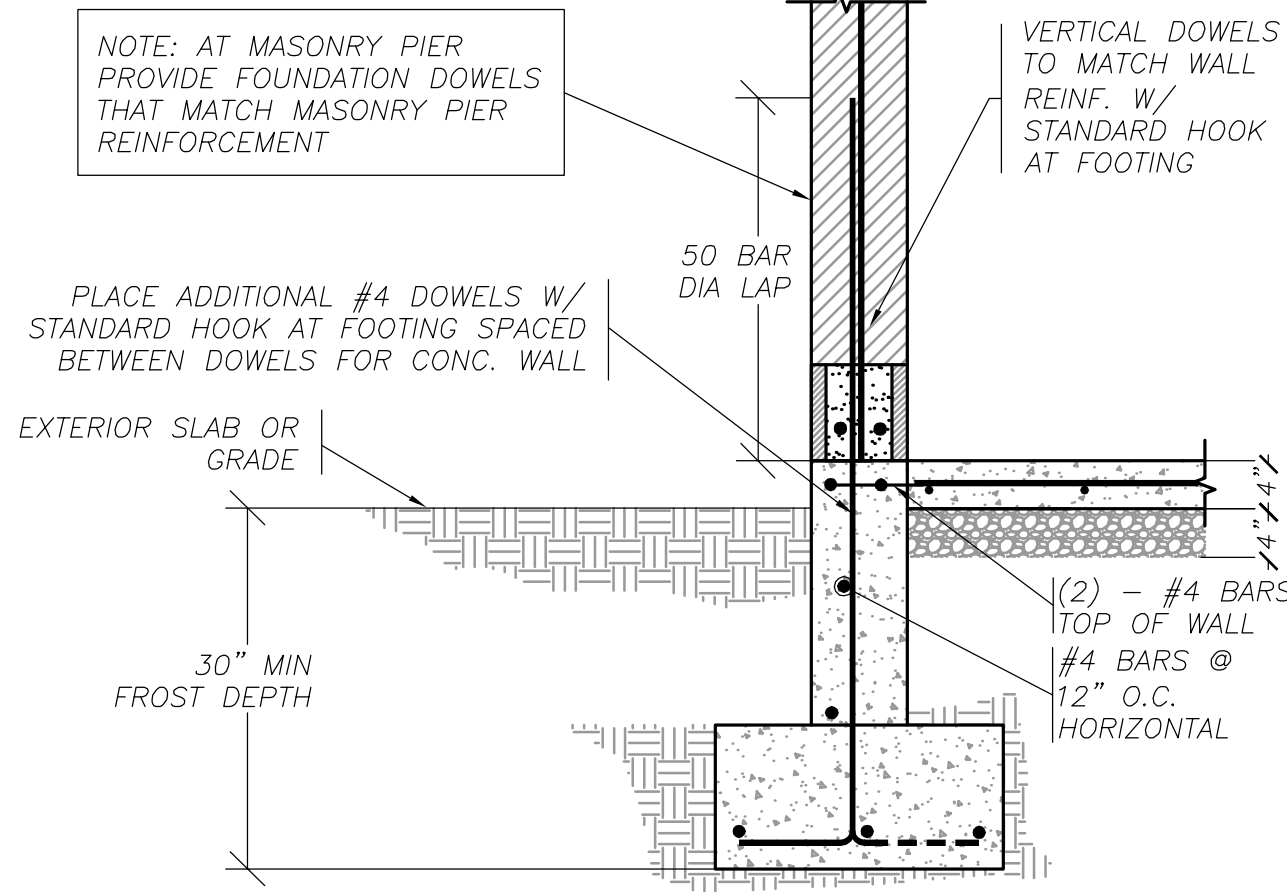
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ROOF FRAMING
PLAN

Revisions:
CODE REVIEW 01.09.08

PROJECT NUMBER: 01501
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APPROVED BY: J.C.S.

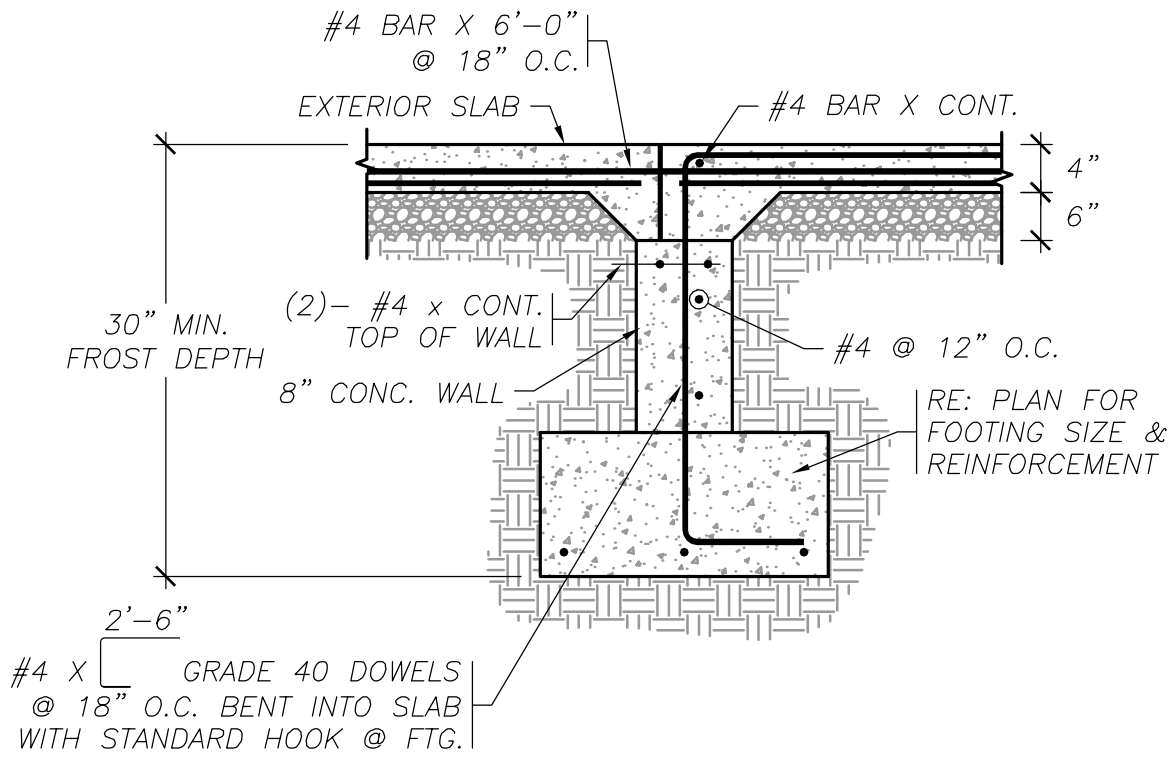
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NOTE: AT MASONRY PIER
PROVIDE FOUNDATION DOWELS
THAT MATCH MASONRY PIER
REINFORCEMENT



A
S3.0

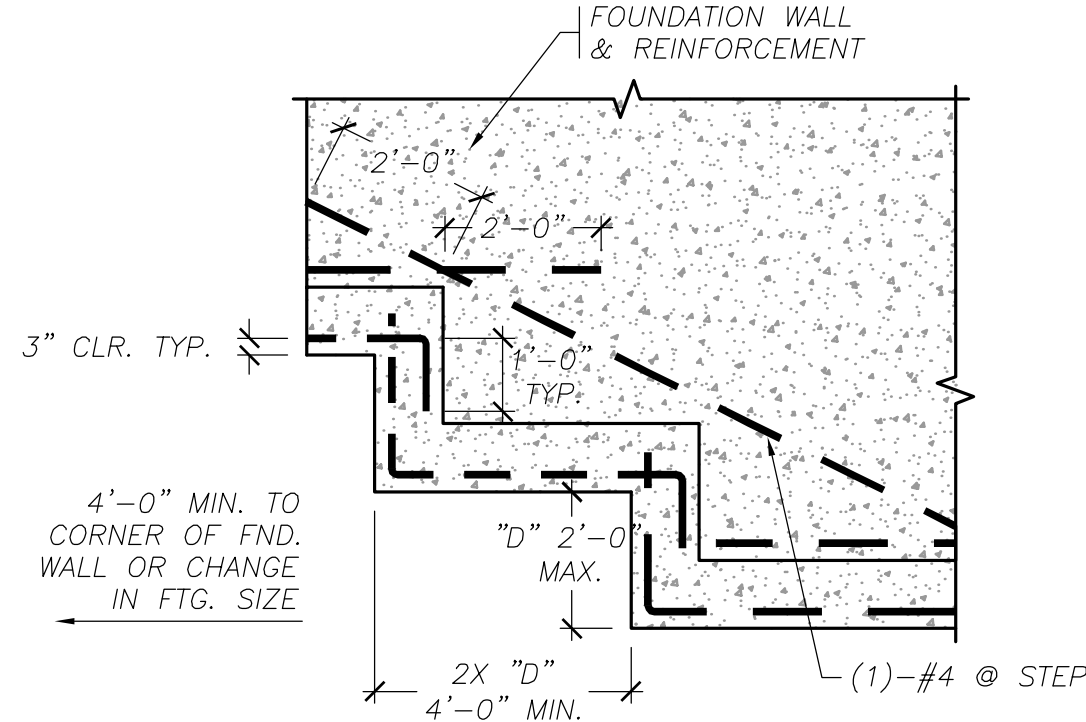
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B
S3.0

THRESHOLD

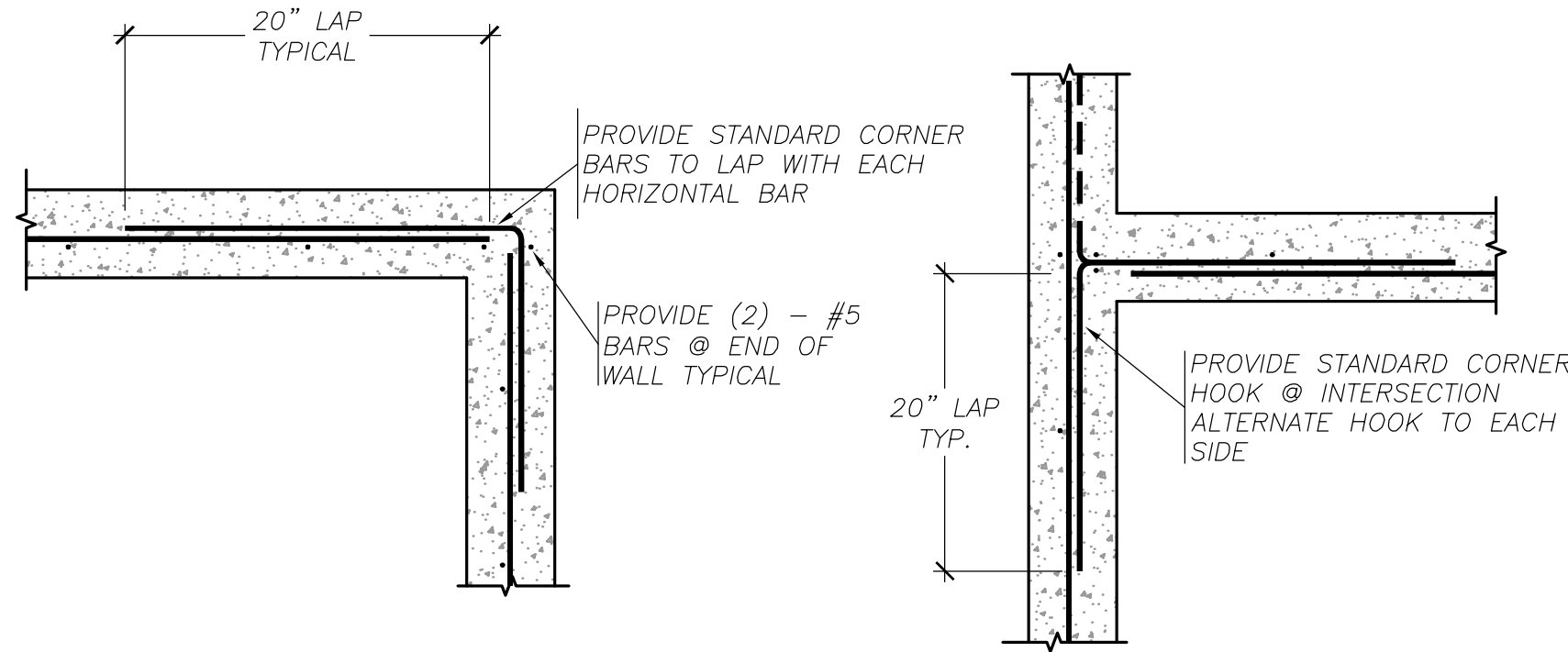
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C
S3.0

FOUNDATION STEP DETAIL

N.T.S.



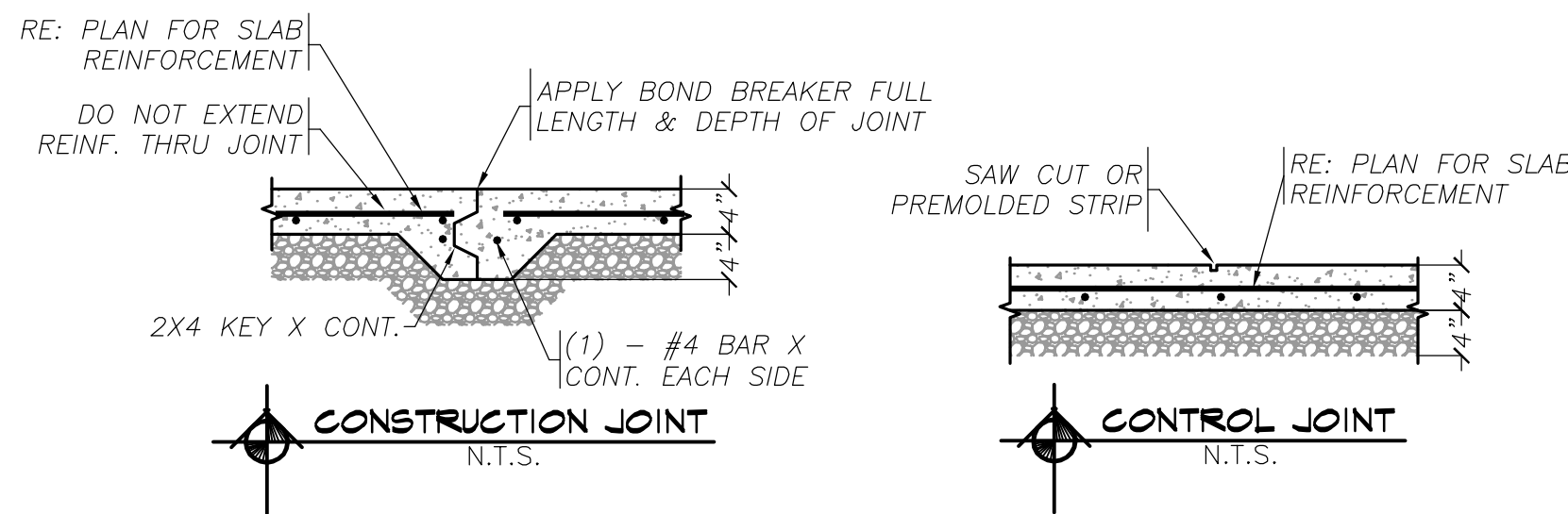
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CONCRETE WALL REINFORCEMENT DETAIL

N.T.S.

STANDARD HOOK LENGTHS

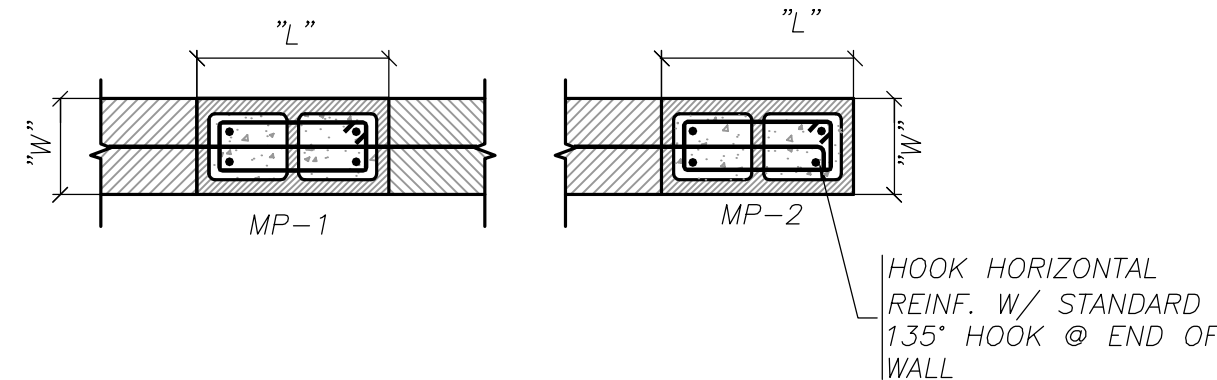
BAR SIZE	180°			90°
	BEND	EXT	LAP	
#4	3"	2.5"	25"	
#5	3.75"	2.5"	31"	
#6	4.5"	3"	52"	



E
S3.0

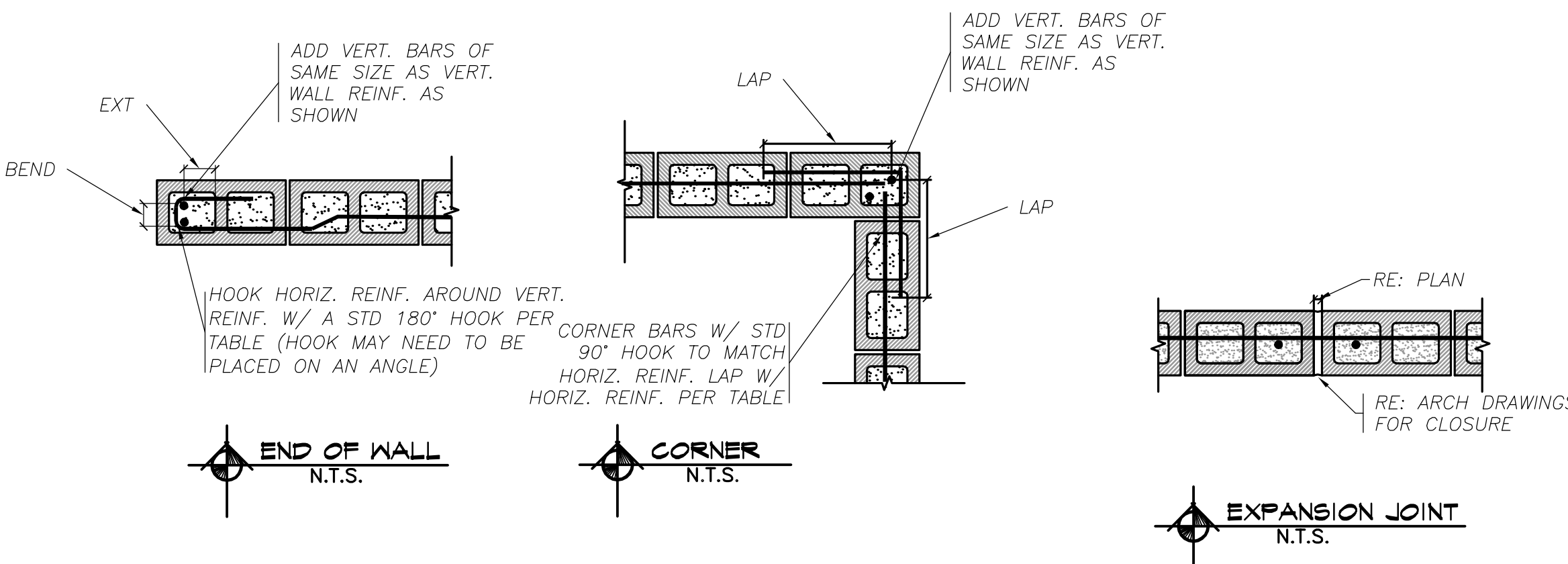
N.T.S.

MASONRY PIER SCHEDULE				
MARK	LENGTH "L"	THICK "W"	REINFORCEMENT	
			VERTICAL	HORIZONTAL
MP-1	16"	8"	4-#5	#3 @ 8" O.C.
MP-2	16"	8"	4-#5	#3 @ 8" O.C.



F
S3.0

N.T.S.



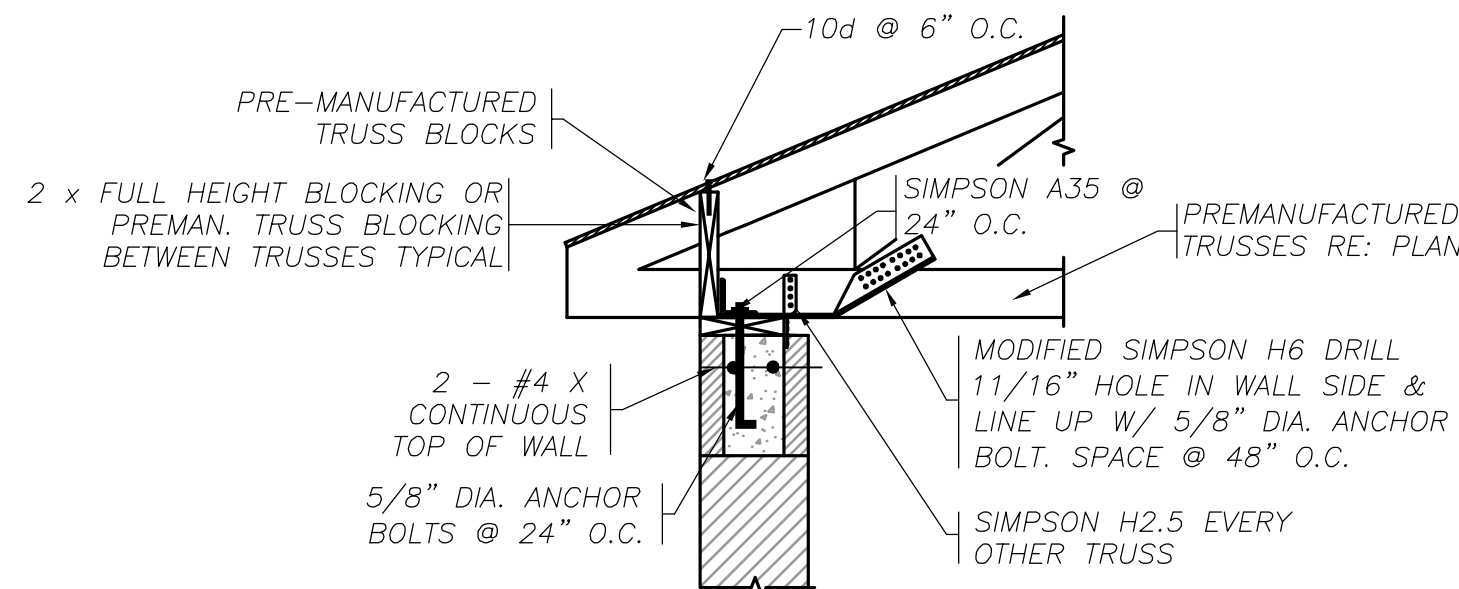
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H
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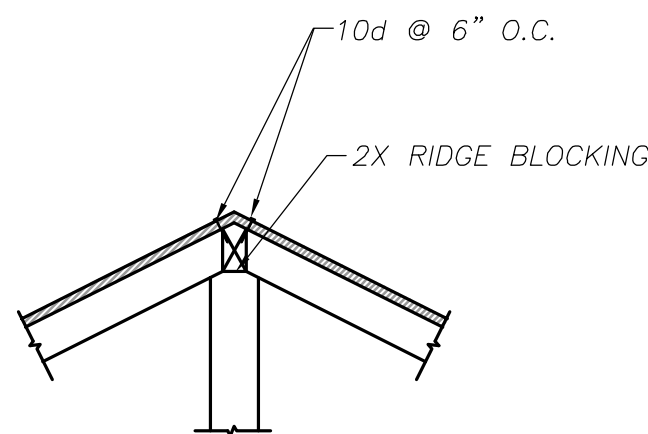
CONTROL AND EXPANSION JOINT DETAILS

N.T.S.



J
S3.0

N.T.S.



K
S3.0

N.T.S.

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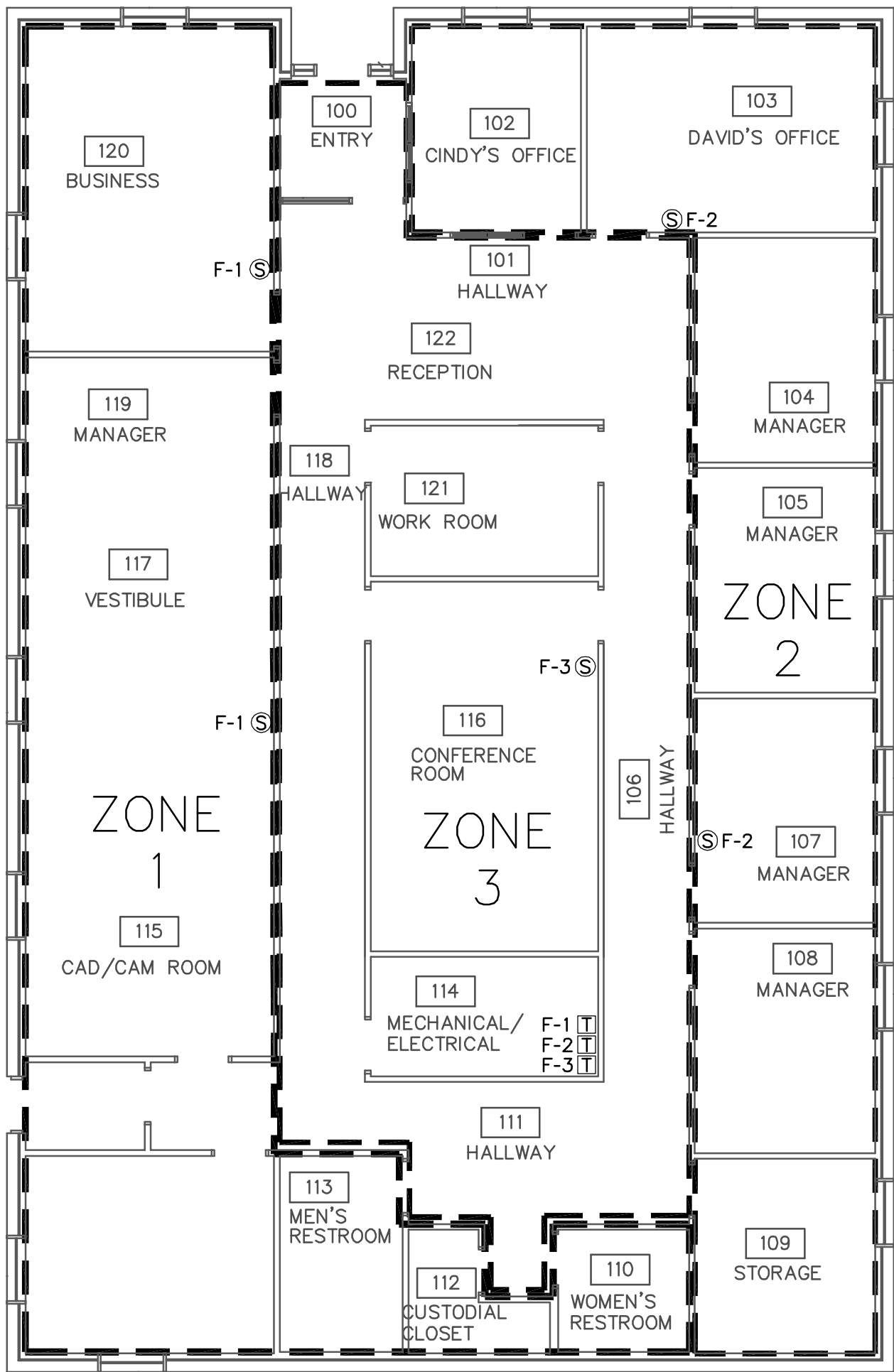
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GENERAL NOTES:

- DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DUCT LINER.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.
- REMOTE CEILING DAMPER REGULATORS ARE REQUIRED ON ALL BALANCE DAMPERS THAT ARE NOT LOCATED DIRECTLY ABOVE REMOVABLE CEILINGS.
- PRIOR TO FINAL INSPECTION PROVIDE "GREEN STICKER" TO VERIFY THAT ALL GAS APPLIANCES HAVE BEEN ADJUSTED FOR ALTITUDE AND GAS CONTENT.
- WRAP ALL OUTSIDE AIR DUCTS WITH EXTERNAL INSULATION.
- ALL PVC EQUIPMENT VENTS, PLUMBING VENTS, AND PENTHOUSES SHALL BE PAINTED TO MATCH ROOF COLOR.
- ALL DUCT WORK AND VENTS ARE TO BE SUPPORTED AS PER SMACNA STANDARD BRACING REQUIREMENTS INCLUDING SEISMIC BRACING WHERE REQUIRED.
- ALL SUPPLY AND RETURN DUCT IS TO BE LINED WITH 1" ACOUSTICAL LINER UNLESS OTHERWISE NOTED.
- ALL SUPPLY AND RETURN DUCTS ABOVE THE CEILING SPACE ARE TO BE WRAPPED WITH 2" INSULATION FOR A COMBINED INSULATION VALUE OF R-8 OR BETTER.

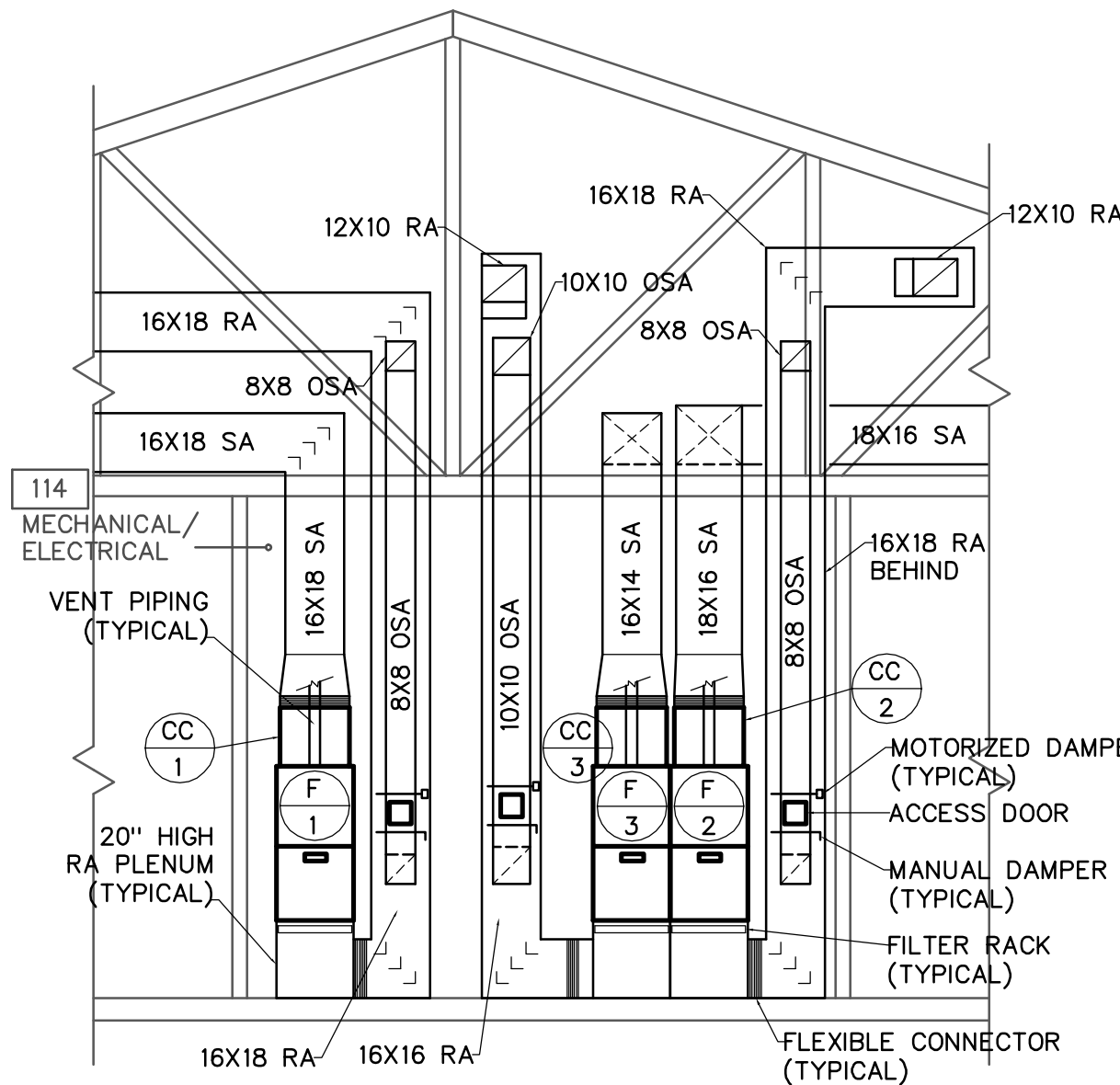
LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BRANCH DUCT TAKE-OFF		FLEX. CONNECTION 6'-0" MAX LENGTH
	SINGLE THICKNESS TURNING VANES		BACK DRAFT DAMPER
	DUCT TRANSITION	SA	SUPPLY AIR
	MOTORIZED DAMPER	RA	RETURN AIR
	MANUAL VOLUME DAMPER	OSA	OUTSIDE AIR
		EA	EXHAUST AIR
		T	THERMOSTAT
		S	REMOTE TEMPERATURE SENSOR

DESIGN CONDITIONS	OUTSIDE	INSIDE
WINTER	2°F	70°F
SUMMER	93°F db, 59°F wb	72°F db, 64°F wb



TEMPERATURE CONTROLS PLAN

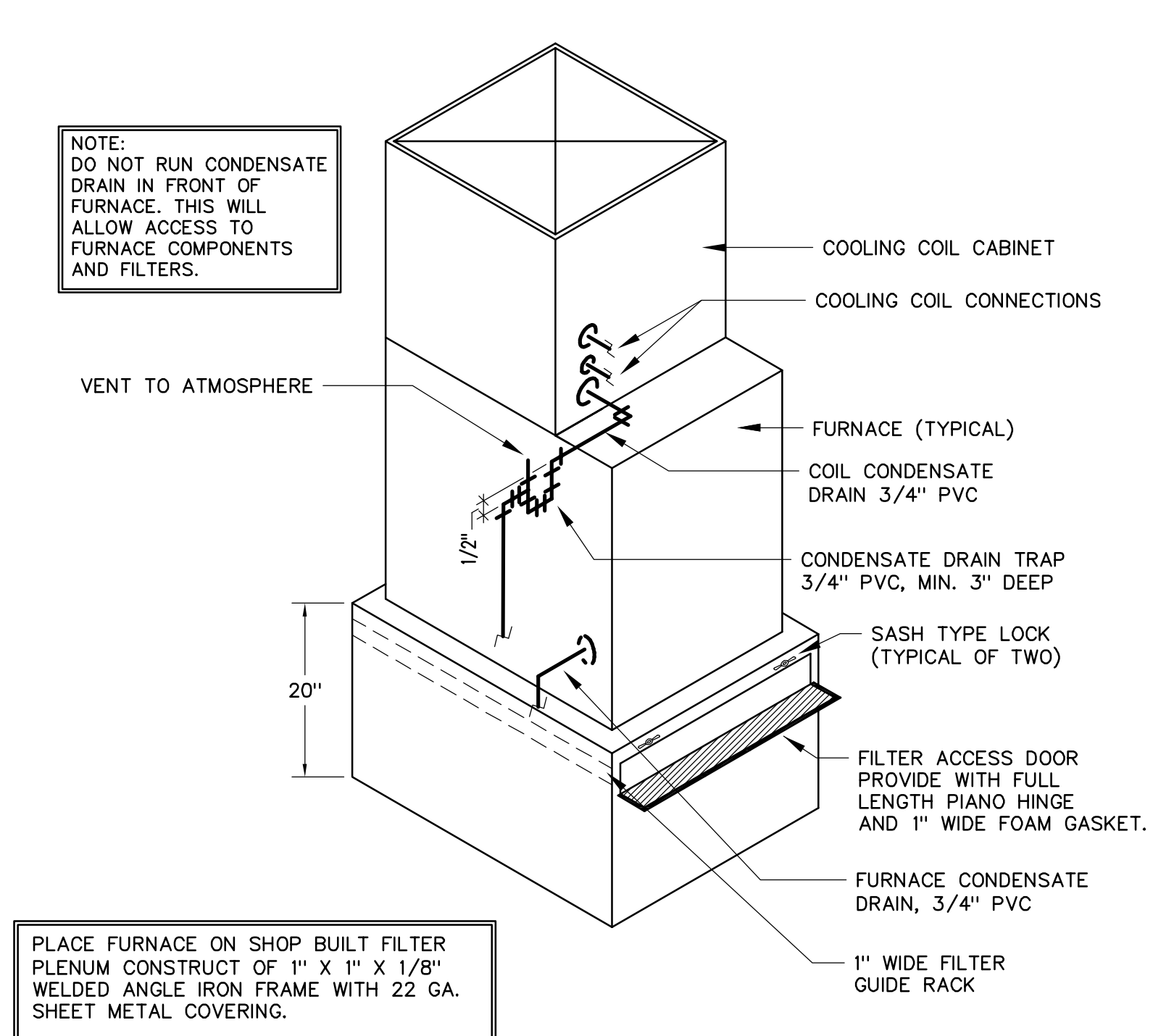
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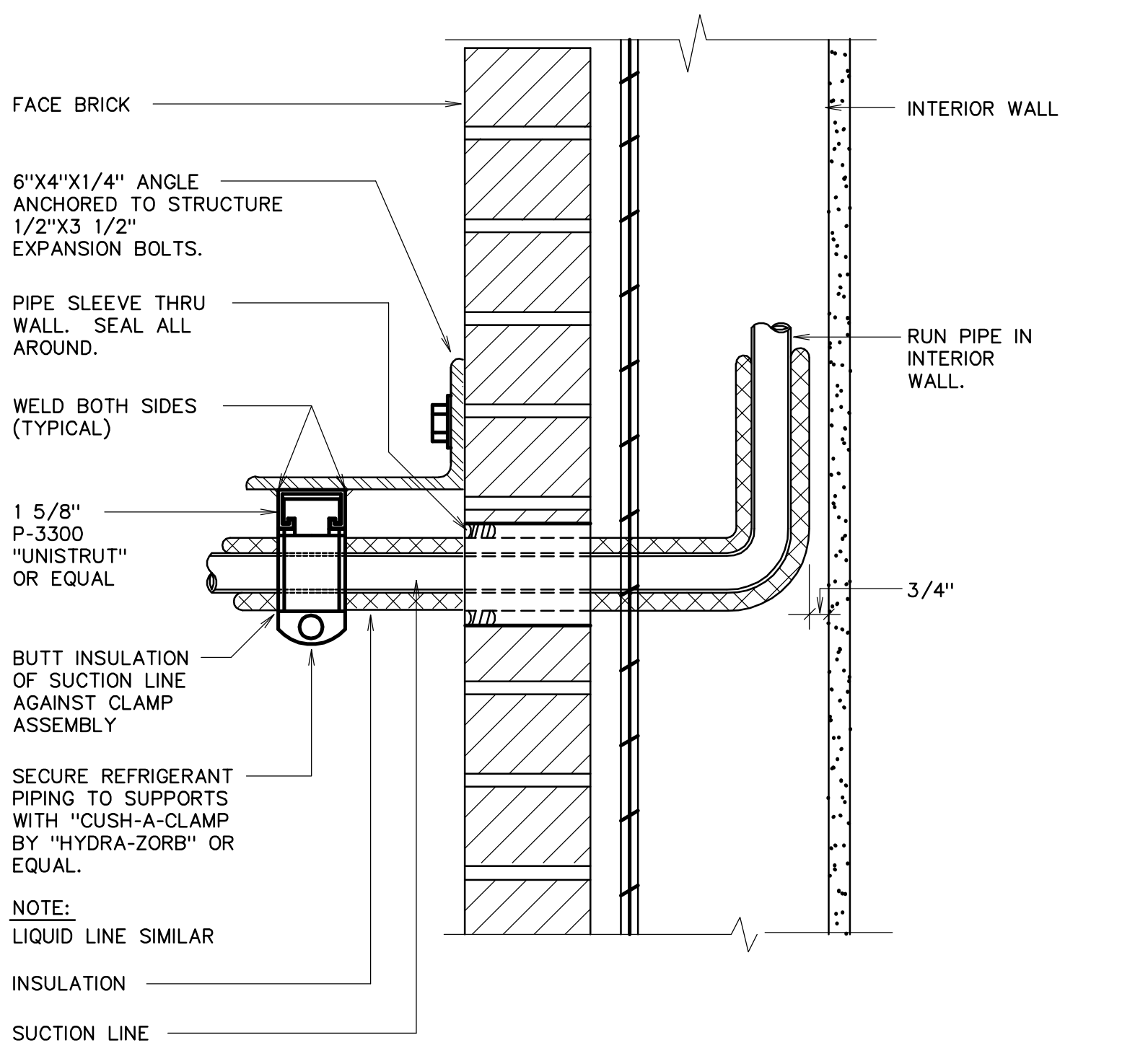
MECHANICAL SECTION

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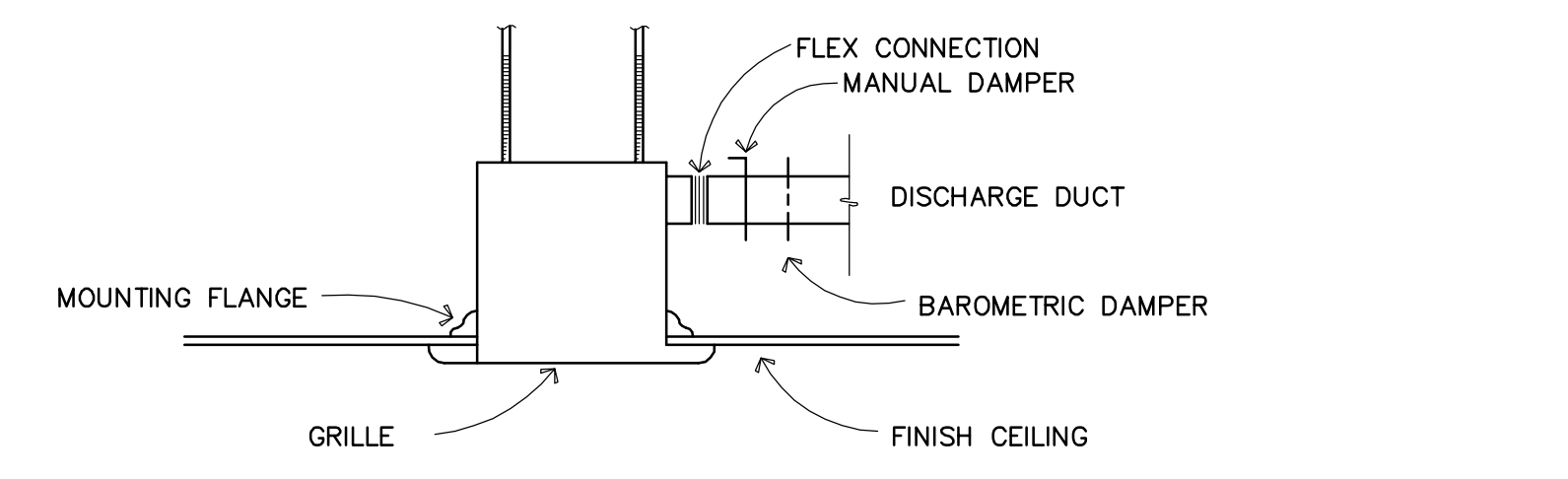




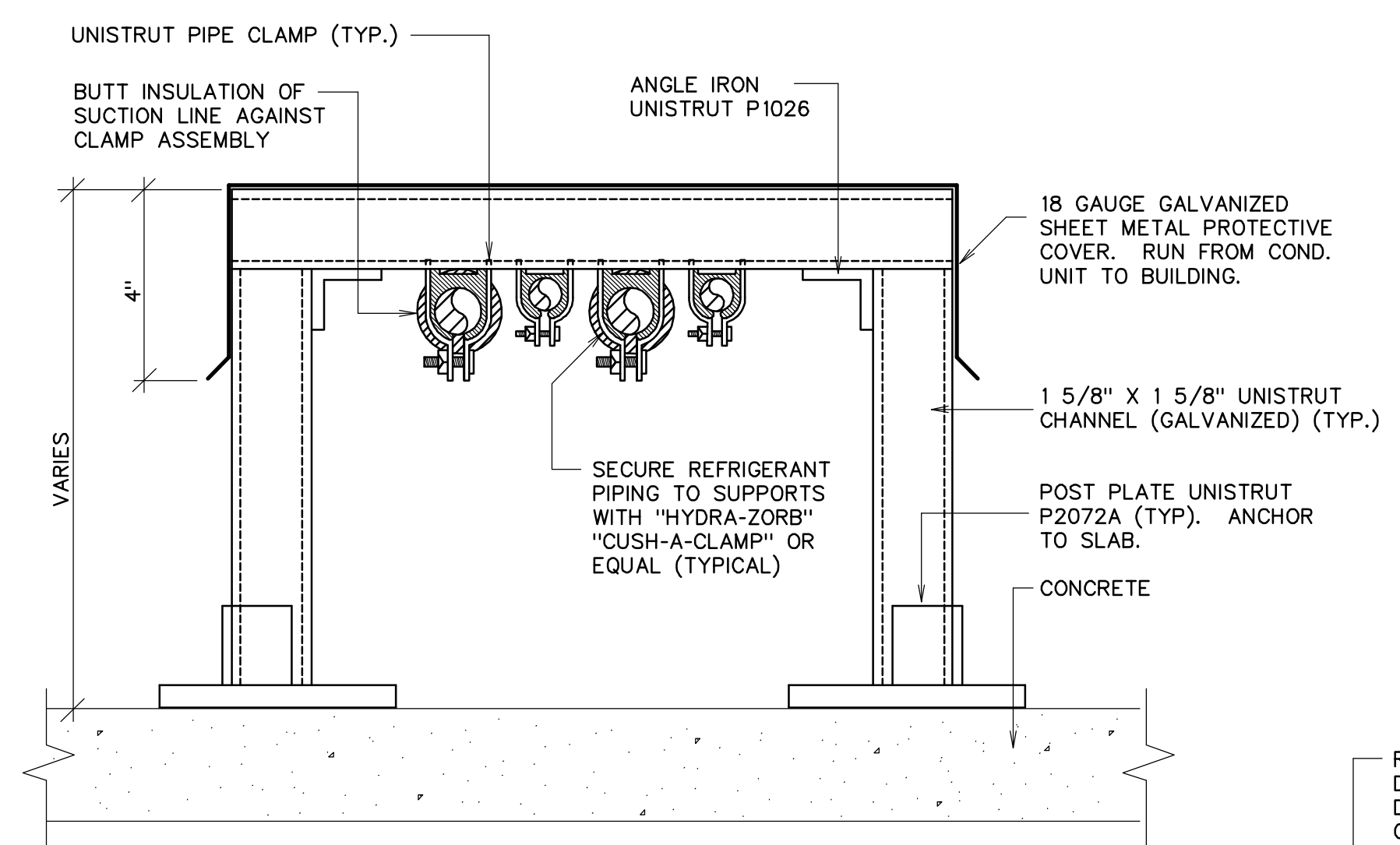
UPFLOW FURNACE DETAIL (A) M-2
SCALE: NONE



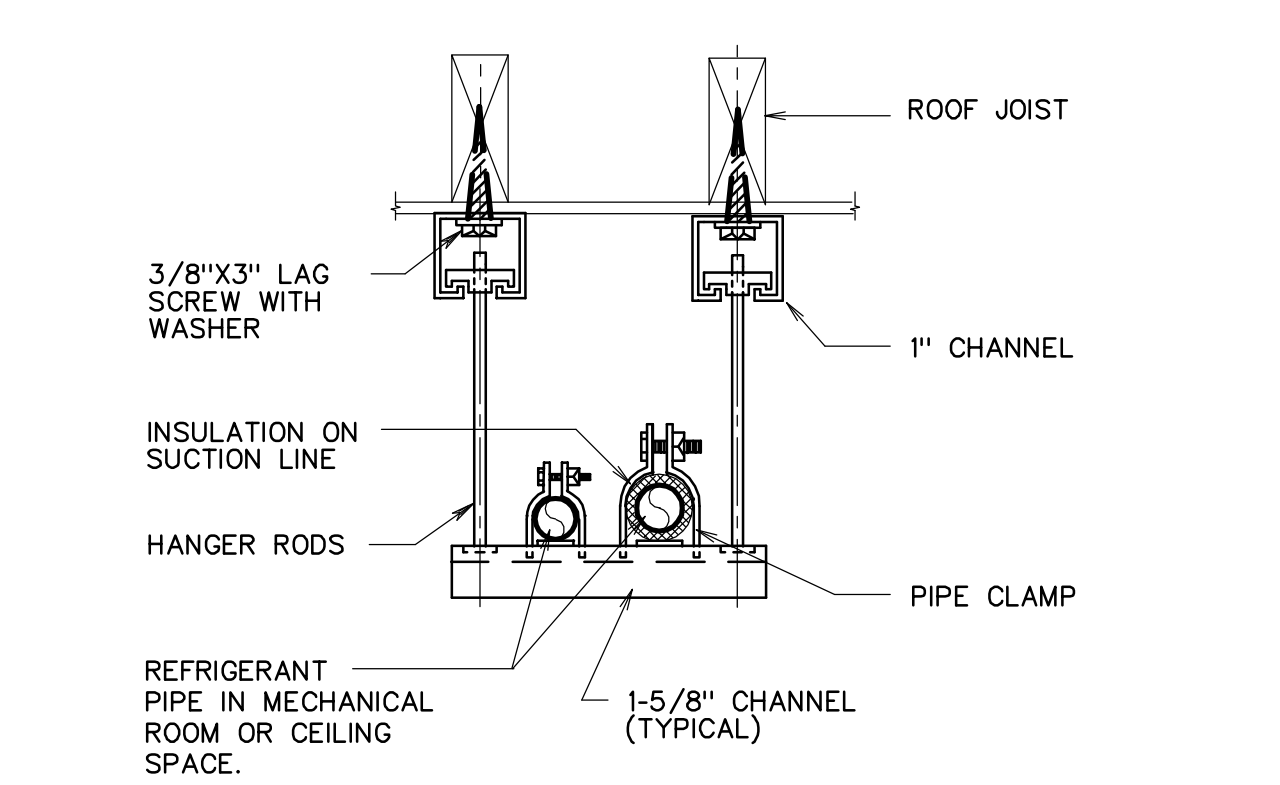
REFRIGERANT PIPE SUPPORT AT WALL (F) M-2
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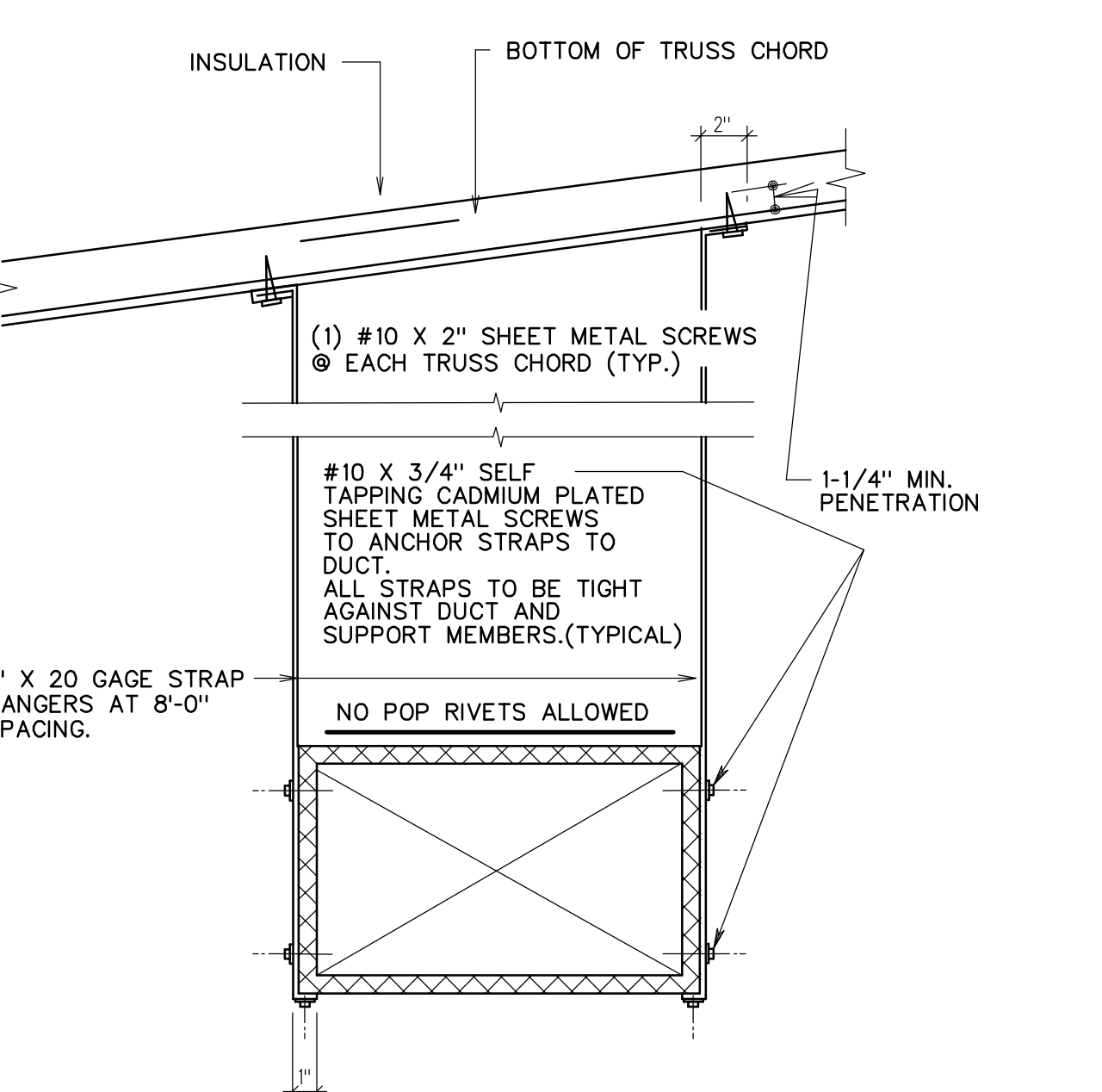
CEILING MOUNTED EXHAUST FAN DETAIL (G) M-2
SCALE: NONE



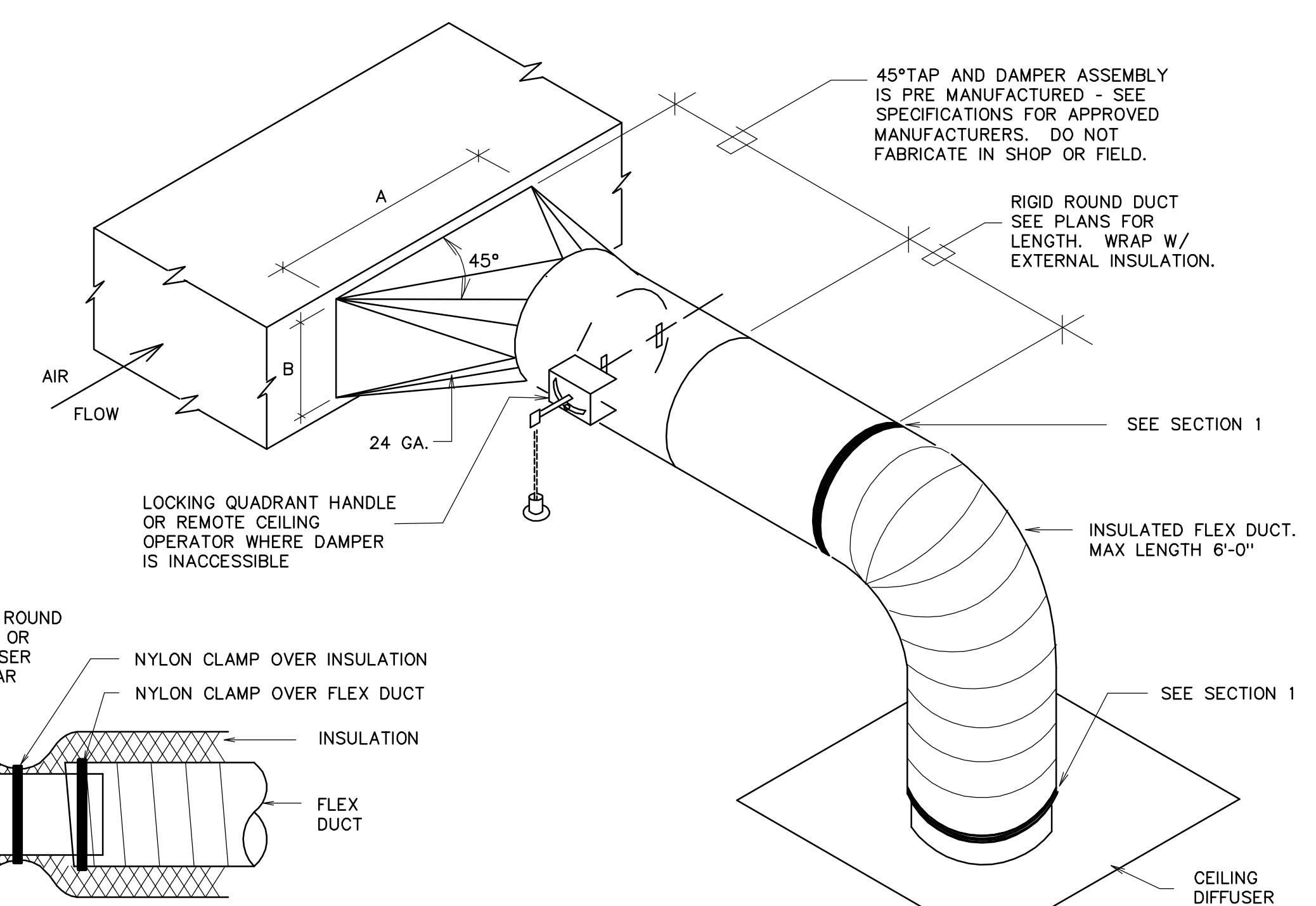
EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL (B) M-2
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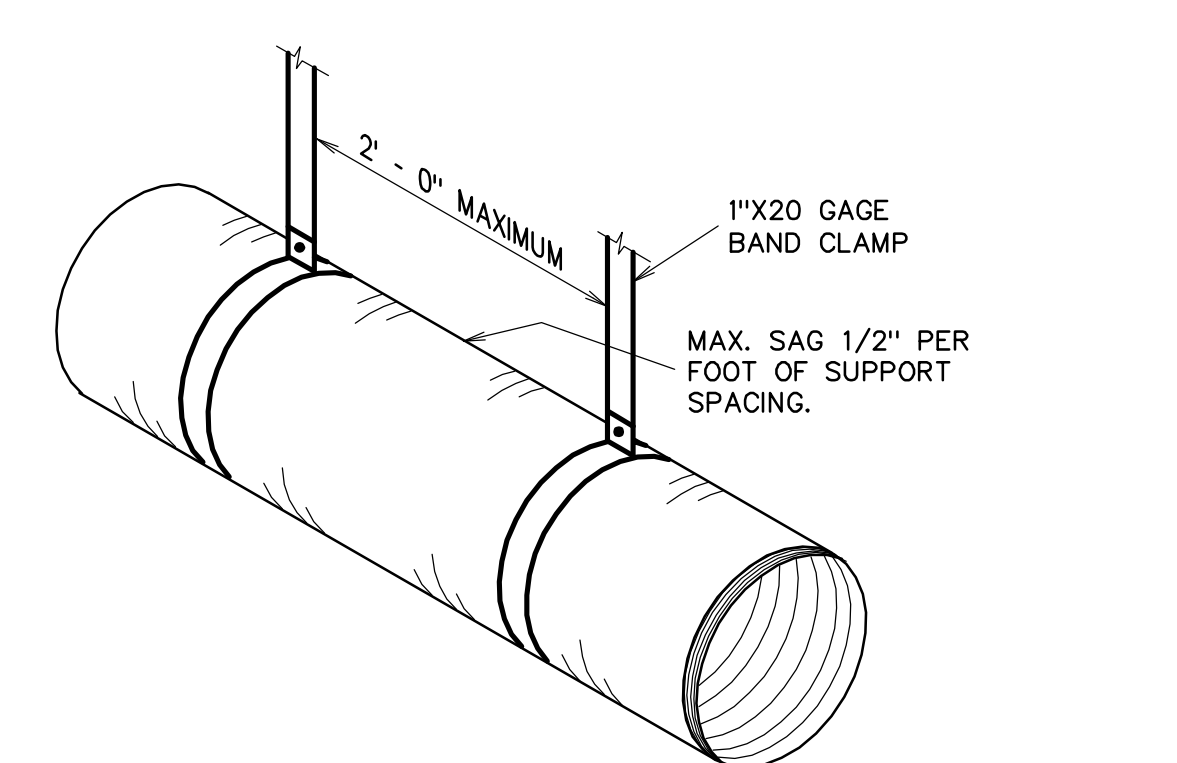
SUSPENDED REF. PIPE SUPPORT (D) M-2
SCALE: NONE



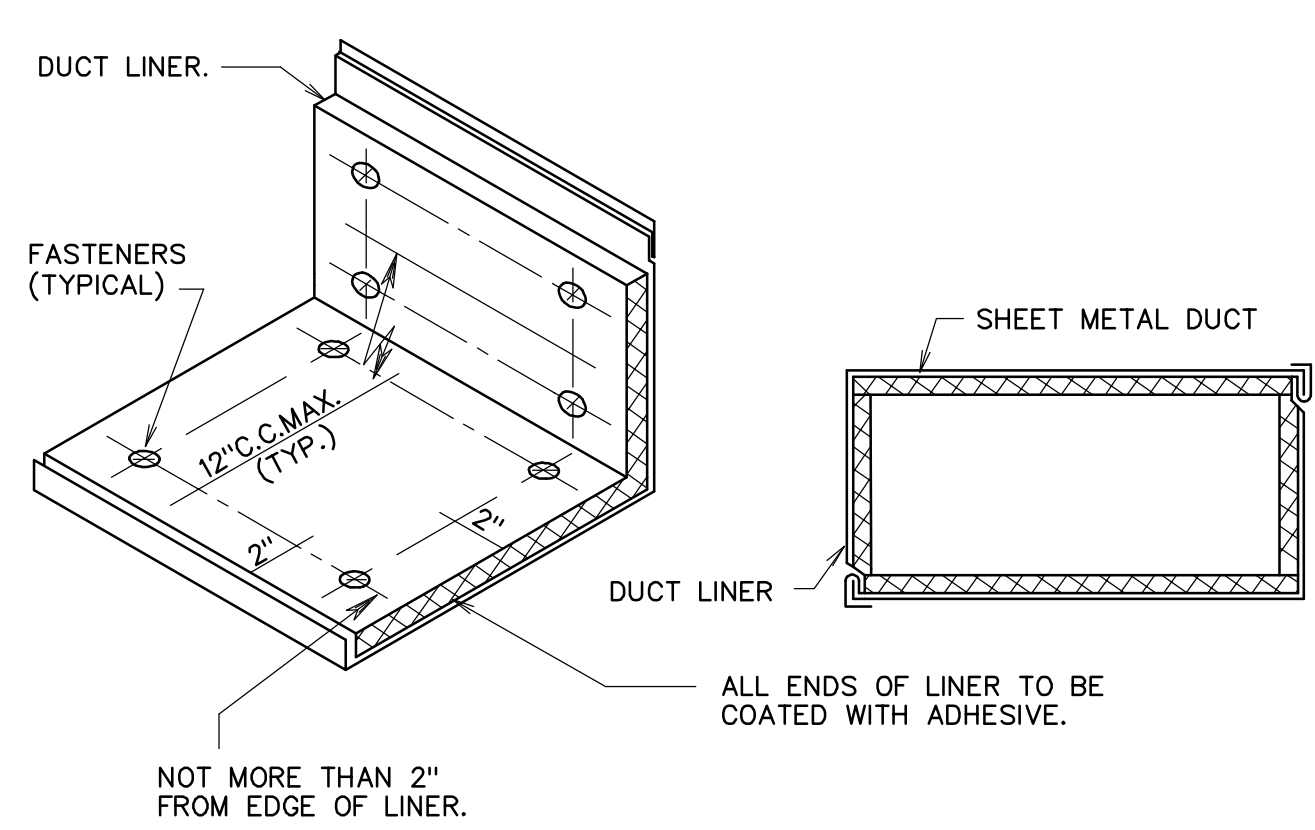
DUCT SUPPORT DETAIL (H) M-2
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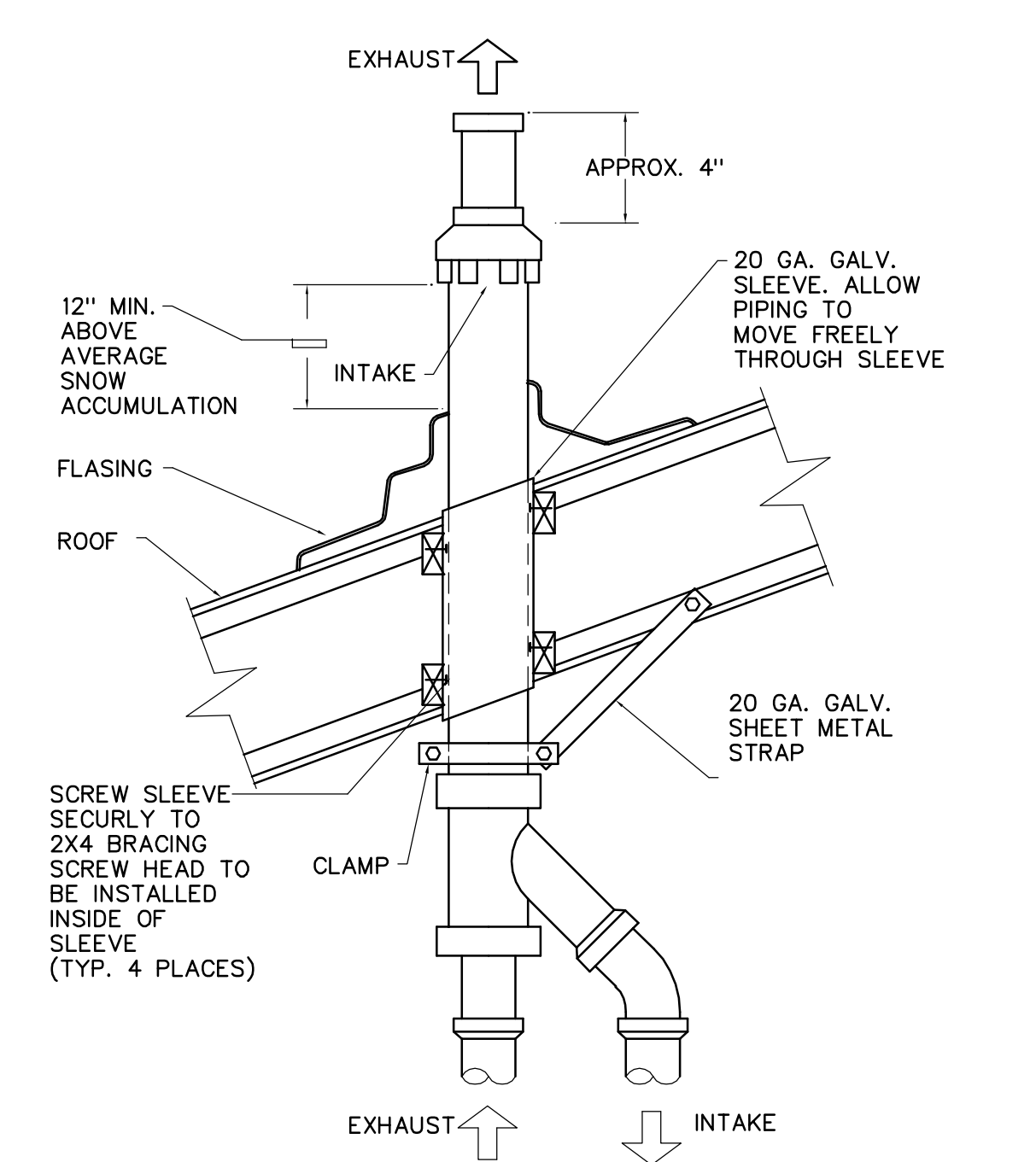
SQUARE TO ROUND TAKE-OFF DETAIL (C) M-2
SCALE: NONE



FLEXIBLE DUCT SUPPORT DETAIL (E) M-2
SCALE: NONE



DUCT LINER DETAIL (I) M-2
SCALE: NONE



ROOF TERMINATION DETAIL (J) M-2
SCALE: NONE

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Job # R08030

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State of Utah - Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
4110 State Office Building/Salt Lake City, Utah 84143/208-3018

Project: **SUU FACILITIES MANAGEMENT OFFICE**

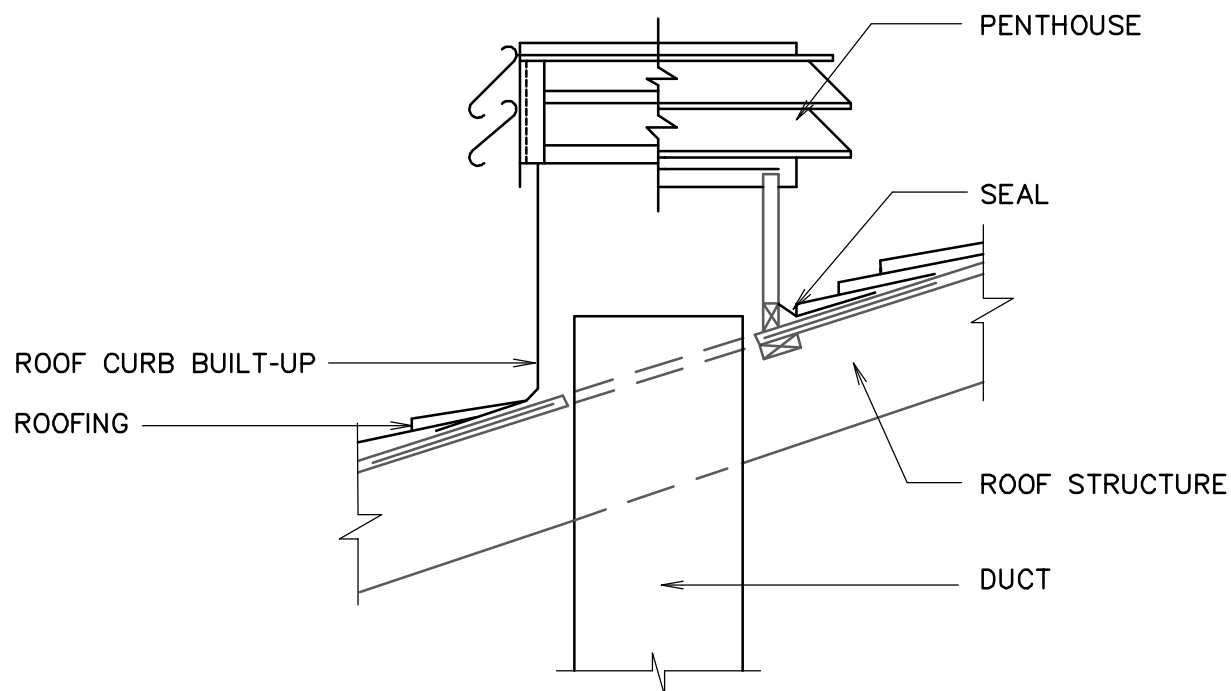
Sheet Title: **MECHANICAL DETAILS**

Revisions:

PROJECT NUMBER: DATE: 5 MAY 2008
DRAWN BY: BRR
CHECKED BY: RJR
APPROVED BY: RJR

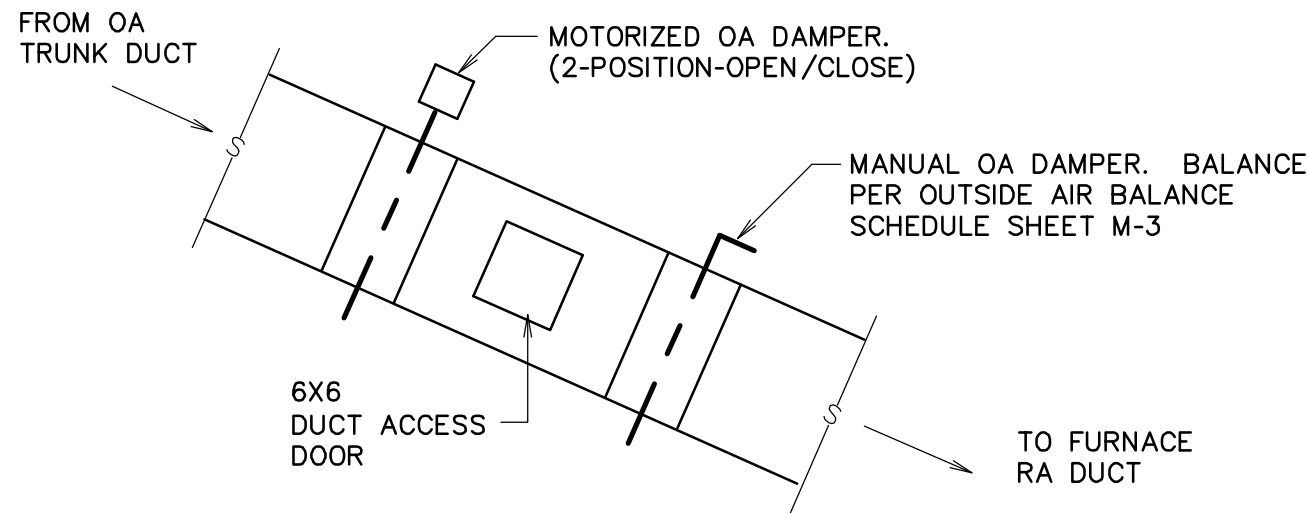
M-2

SHEET NUMBER: Sheet of



PENTHOUSE DETAIL
SCALE: NONE

A
M-3



TYPICAL OUTSIDE AIR DUCT DETAIL
SCALE: NONE

B
M-3

REGISTER, LOUVER & GRILLE SCHEDULE					
MARK	TYPE	SERVICE	CFM RANGE ^①	NOMINAL SIZE	REMARKS
R-1	CEILING	RA	110-200	8X8	②
R-2	CEILING	RA	250-260	10X10	②
R-3	CEILING	RA	360-370	12X12	②
R-4	CEILING	RA	800	20X20	②
PH-1	PENTHOUSE	EA	200	8X8	④ ⑤ ⑥
PH-2	PENTHOUSE	OSA	550	12X12	④ ⑤ ⑥

- ① MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
② SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
③ FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
④ BAKED ENAMEL FINISH TO MATCH ROOF COLOR OR COLOR AS DIRECTED BY ARCHITECT.
⑤ PROVIDE ALUMINUM BIRD SCREENS.
⑥ MAX. ACCEPTABLE FACE VELOCITY THROUGH NET FREE AREA: 400 FT/MIN.

DIFFUSER SCHEDULE							
MARK	C.F.M. RANGE ^①	DIFFUSER SIZE	NECK. CONN.	BLOW	PATTERN	AIR DIST./SIDE	
						A (%)	B(%)
D- 1	50	6X6	6"φ	4 WAY	⬆⬆⬆⬆	25	25
D- 2	110-200	9X9	8"φ	4 WAY	⬆⬆⬆⬆	25	25
D- 3	200-280	12X12	10"φ	4 WAY	⬆⬆⬆⬆	25	25
D- 4	150	12X12	10"φ	2 WAY	⬆⬆	50	50
D- 5	200	12X12	10"φ	3 WAY	⬆⬆⬆	33	33

- ① MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
② SHALL BE TITUS TDC TYPE 6 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
③ FINISH SHALL BE OFF-WHITE BAKED ENAMEL.

EXHAUST FAN SCHEDULE					
MARK	SERVES ROOM	MIN. ^① S.C.F.M.	STATIC PRESSURE IN W.G.	MIN WATTS	REMARKS
EF 1	MEN'S RESTROOM 113	75	0.3	81W	
EF 2	CUSTODIAL CLOSET 112	50	0.3	81W	
EF 3	WOMEN'S RESTROOM 110	75	0.3	81W	

- ① SET BALANCE DAMPERS SHOWN ON M-1 TO CFM LISTED
② CONTROL BY ELECTRICAL CONTRACTOR
③ VOLTAGE IS 115/1φ/60
④ PROVIDE MANUAL DAMPER AND BAROMETRIC DAMPER AT EACH EXHAUST FAN OUTLET

AIR COOLED CONDENSING UNIT SCHEDULE											
MARK	NO. REQ'D	AREA SERVED	MANUFACTURER MODEL NUMBER	MIN./2 SIZE (TONS)	MIN CIRCUIT AMPS	COMPRESSOR MOTOR			O/FM FLA		REMARKS ^④
						NO.	φ	RLA			
CU 1	1	WEST ROOMS	123A	4	26.2	1	1	19.9	109.0	1.4	
CU 2	1	EAST ROOMS	123A	4	26.2	1	1	19.9	109.0	1.4	
CU 3	1	CENTRAL ROOMS	123A	3	19.0	1	1	14.1	77.0	1.4	

- ① REFRIGERANT R-410a
② AT DESIGN CONDITIONS AND 93°F ENTERING AIR TO CONDENSER.
③ CONDENSING UNIT MARKS CORRESPOND WITH FURNACE AND COOLING COIL MARK NUMBERS.
④ MANUFACTURER FOR MODEL LISTED IS BRYANT, SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
⑤ VOLTAGE IS 208/1φ/60.
⑥ COMBINED FURNACE, COIL AND CONDENSING UNIT WITH CONNECTED REFRIGERANT PIPING MUST MEET THE CAPACITIES LISTED ON COOLING COIL SCHEDULE. SELECT AT 50°F SATURATED SUCTION TEMPERATURE.

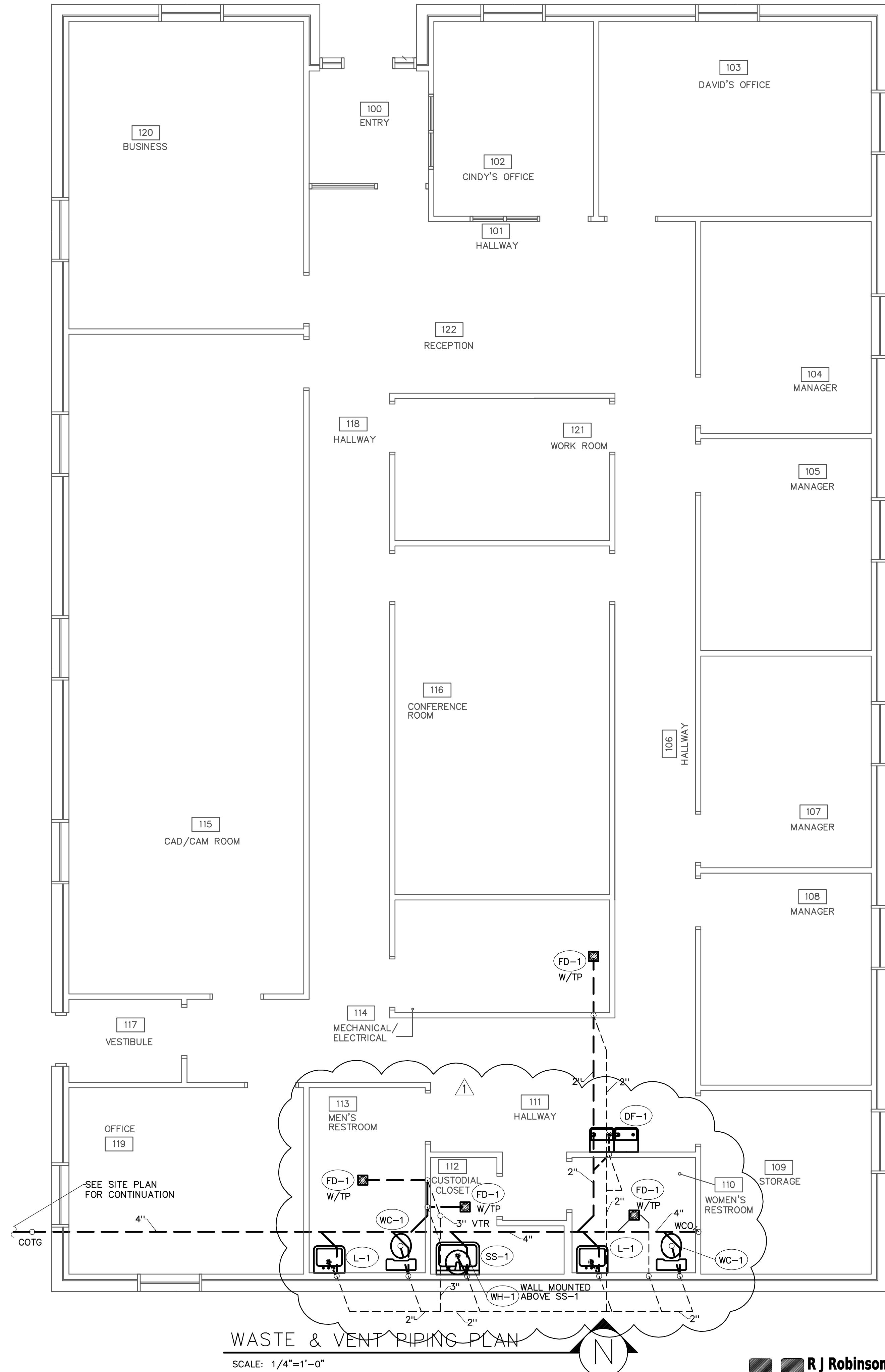
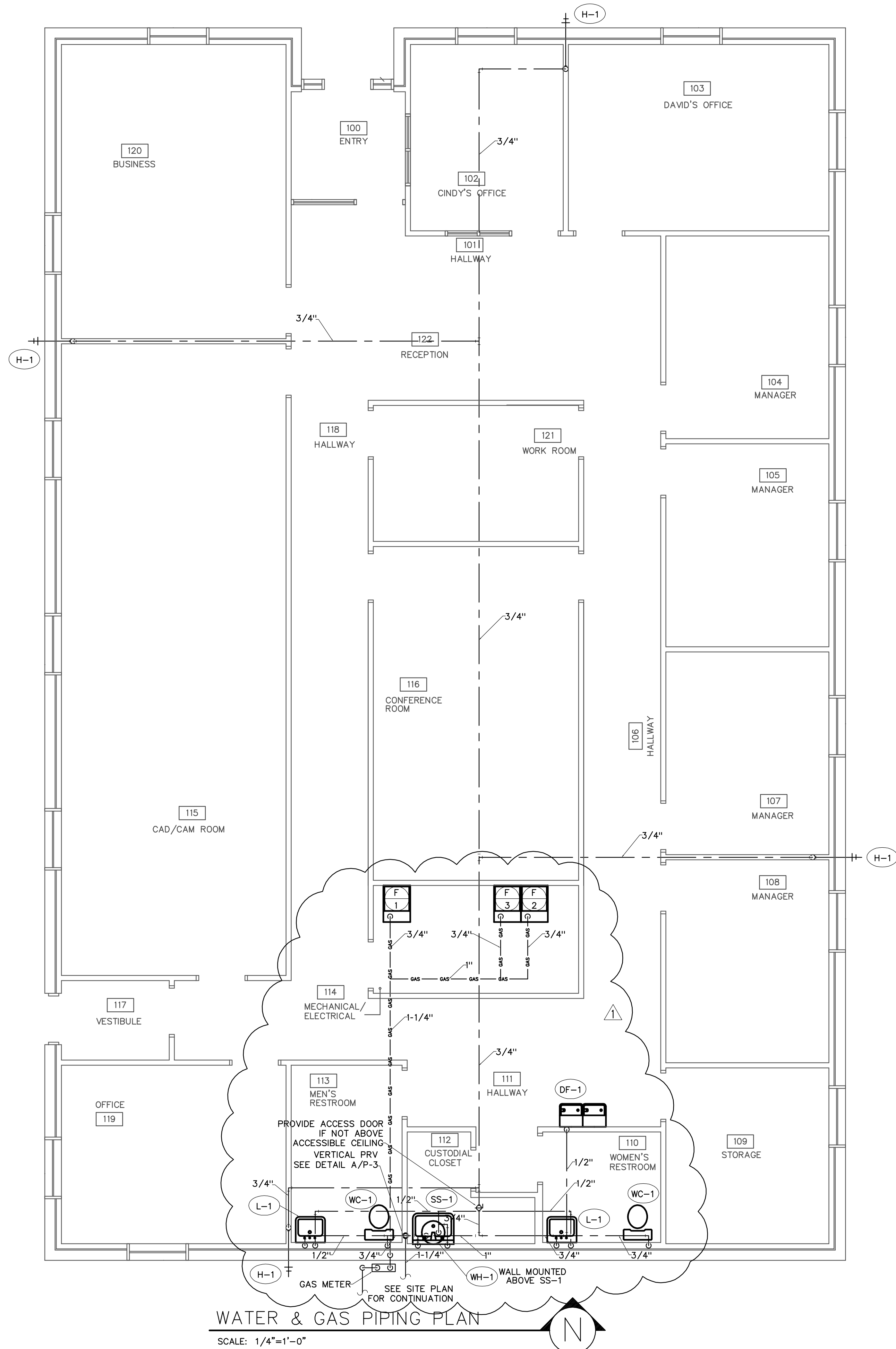
FURNACE SCHEDULE										
MARK	NO. REQ'D	MIN. REQ'D INPUT ^① BTU/HR	MIN. REQ'D OUTPUT ^① BTU/HR	MINIMUM S.C.F.M	EXT. S.P. IN W.G.	MOTOR				REMARKS ^③
						MIN. H.P.	φ	HERTZ		
F 1	1	80,000	75,000	1600	0.5	1/2	1	60	115	⑤
F 2	1	80,000	75,000	1600	0.5	1/2	1	60	115	⑤
F 3	1	80,000	75,000	1200	0.5	1/3	1	60	115	⑤

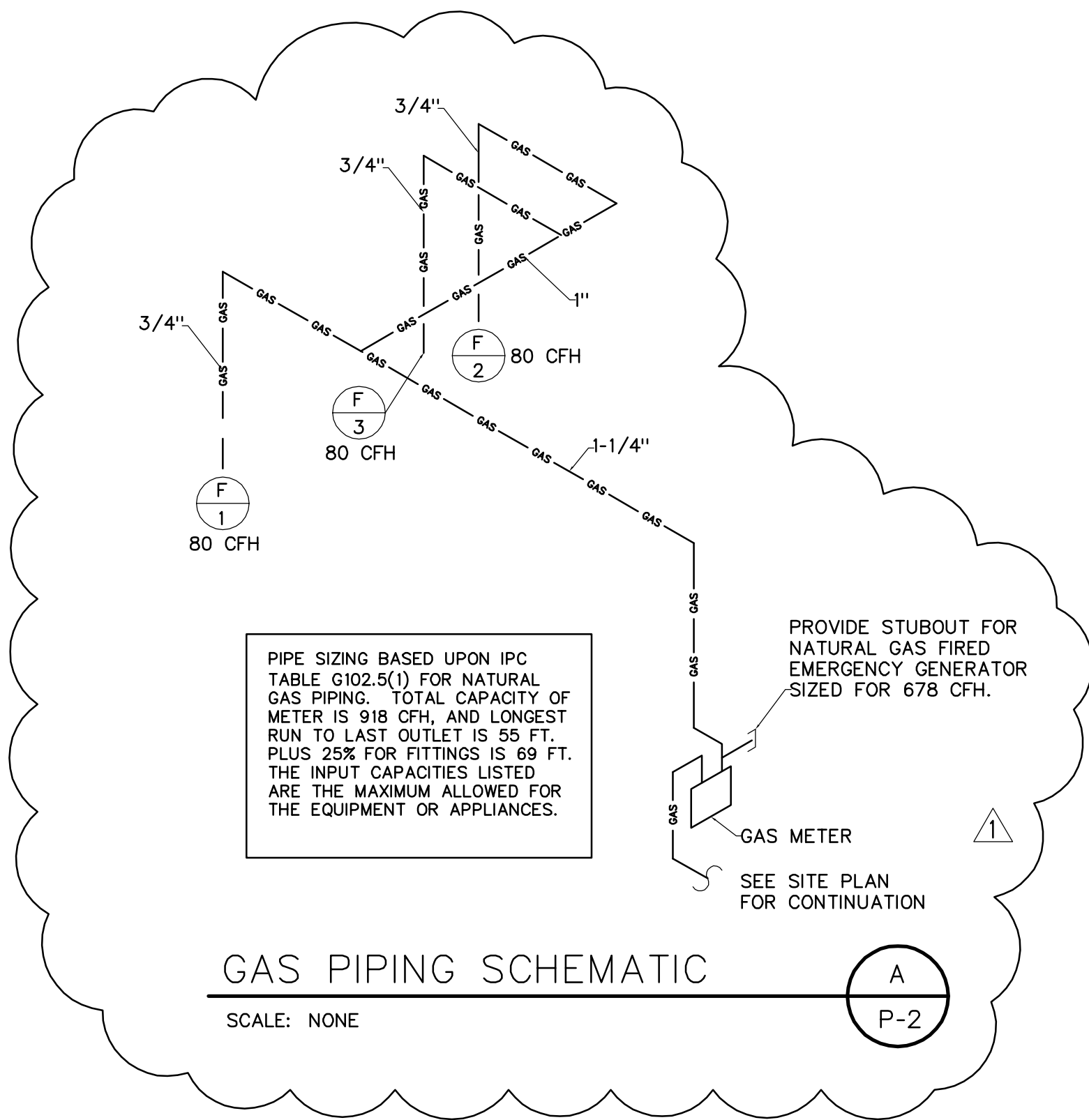
- ① SEA LEVEL RATING
② FURNACE MARKS CORRESPOND WITH CONDENSING UNIT AND COOLING COIL MARKS.
③ SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
④ CAPACITIES SHOWN ARE FOR INDIVIDUAL FURNACES AND NOT FOR TANDEM TOTALS.
⑤ FURNACE TO BE 90% EFFICIENT SEALED COMBUSTION TYPE.

DX COOLING COIL SCHEDULE							
MARK	NO. REQ'D	MIN. REQ'D CAP.		COND. ENT. EVAP.		S.C.F.M.	MAX. PR. DR. IN W.G.
		TOT. MBH	SEN. MBH	DB °F	WB °F		
CC 1	1	35.0	35.0	77.9	58.9	1600	0.25
CC 2	1	27.5	27.5	78.0	58.9	1600	0.25
CC 3	1	25.5	25.5	81.0	58.5	1200	0.25

- ① COMPLETE WITH FACTORY COIL BOX AND COIL
② SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
③ COMBINED FURNACE, COIL AND CONDENSING UNIT WITH CONNECTED REFRIGERANT PIPING MUST MEET THE CAPACITIES LISTED ON THIS SCHEDULE. SELECT AT 55°F SATURATED SUCTION TEMPERATURE.

OUTSIDE AIR BALANCE SCHEDULE			
MARK	BALANCE TO CFM	MARK	BALANCE TO CFM
F 1	110	F 2	100
F 3	340		

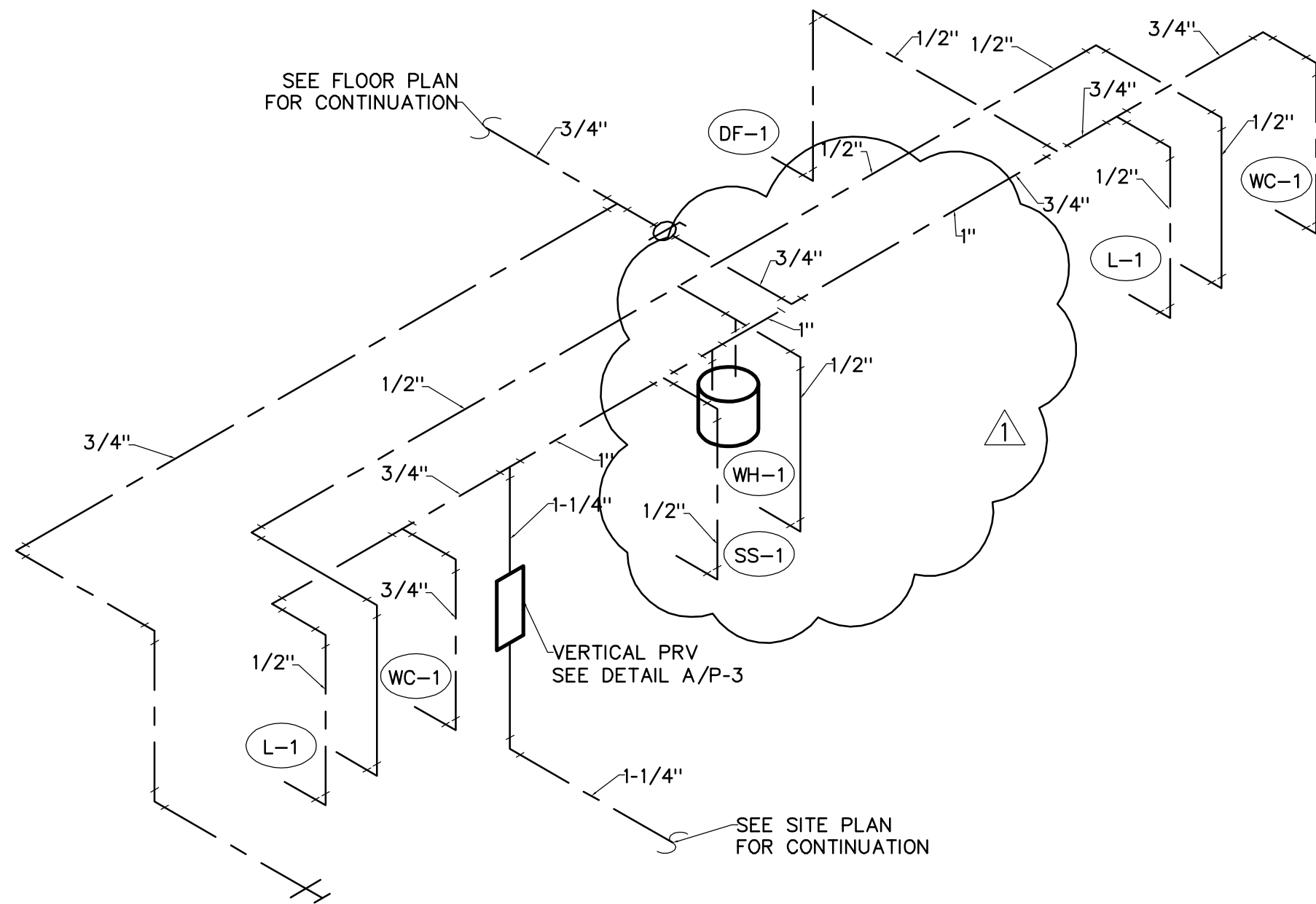




GAS PIPING SCHEMATIC

SCALE: NONE

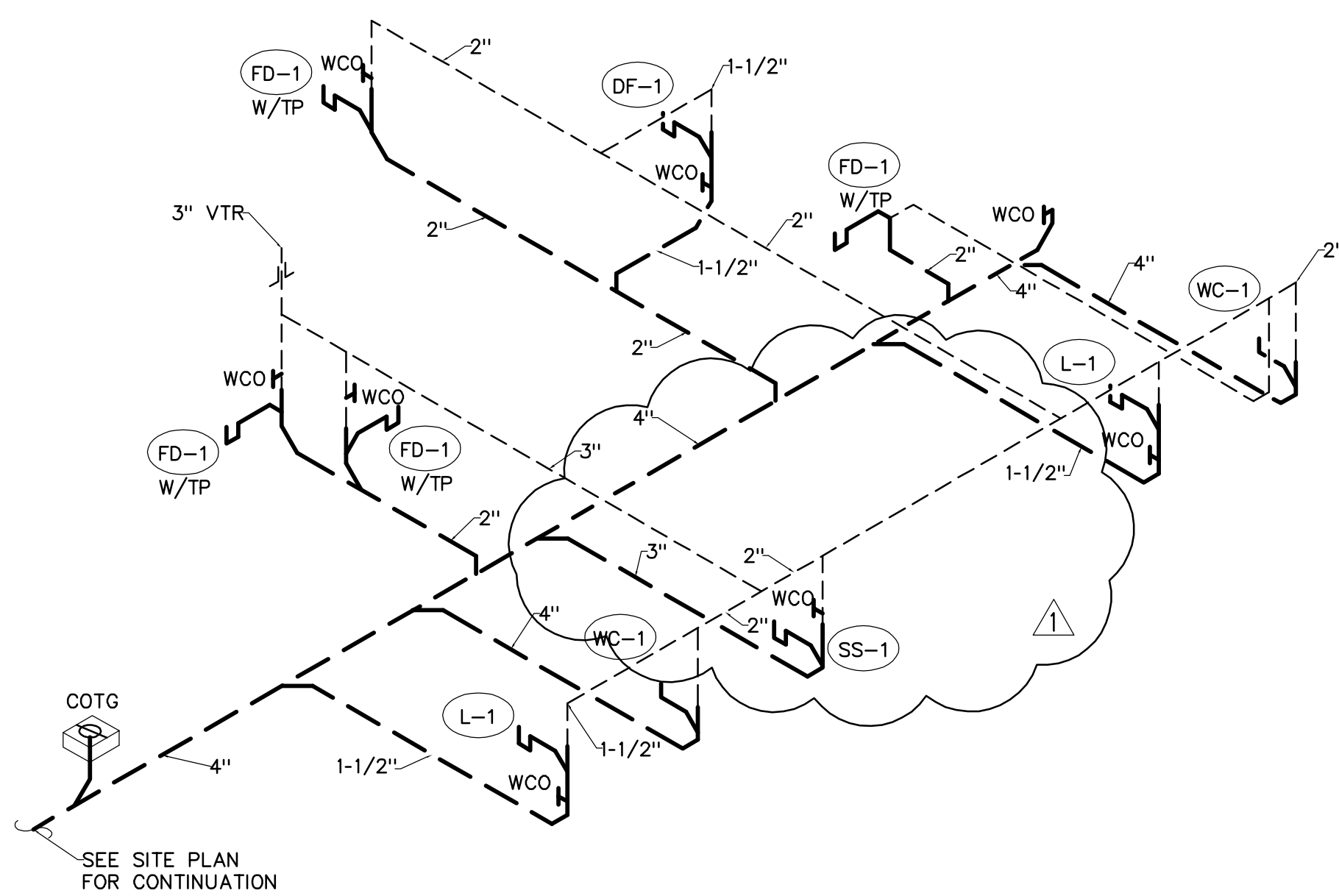
A
P-2



WATER PIPING SCHEMATIC

SCALE: NONE

B
P-2



WASTE & VENT PIPING SCHEMATIC

SCALE: NONE

C
P-2

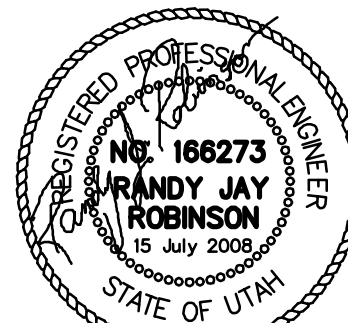
P L U M B I N G F I X T U R E S C H E D U L E																
MARK	FIXTURE	PIPE SIZE					REMARKS	QUAN	WASTE F.U. EACH	COLD WATER F.U. EACH	HOT WATER F.U. EACH	COMB. WATER F.U. EACH	WASTE F.U. TOTAL	COLD WATER F.U. TOTAL	HOT WATER F.U. TOTAL	COMB. WATER F.U. TOTAL
		TRAP	WASTE	VENT	C.W.	H.W.										
(WC-1)	WATER CLOSET	INT.	4"	2"	1/2"	-	FLUSH TANK, 18" RIM HEIGHT (ADA, MAX 1.5 GPF)	2	6	5	0	5	12	10	0	10
(L-1)	LAVATORY	1-1/4"	1-1/4"	1-1/2"	1/2"	1/2"	SELF SUPPORTING 20" x 18", MAX, 0.5 GPM FLOW RESTRICTOR	2	1	1.5	1.5	2	2	3	3	4
(SS-1)	SERVICE SINK	3"	3"	2"	1/2"	1/2"	FLOOR TYPE	1	3	2.25	2.25	3	3	2.25	2.25	3
(FD-1)	FLOOR DRAIN	2"	2"	2"	-	-	WITH DEEP SEAL P-TRAP	4	2	0	0	0	8	0	0	0
(DF-1)	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1-1/2"	1/2"	-	ELECTRIC BI-LEVEL (ADA APPROVED) ⚠	1	1	0.25	0	0.25	1	0.25	0	0.25
(H-1)	HOSE BIB	-	-	-	3/4"	-	USE NON-FREEZE TYPE	4	0	3	0	3	0	12	0	12
(WH-1)	WATER HEATER	-	-	-	1/2"	1/2"	120 V, 1500 W ELECTRIC WALL HUNG WATER HEATER, 12 GALLON TANK. BRADFORD WHITE M-I-12UT5SS OR EQUIVALENT.	1	0	0	0	0	0	0	0	0
TOTAL (F.U.)													26	27.5	5.25	29.25
GPM														23.3	10.7	23.3

WATER CALCULATIONS

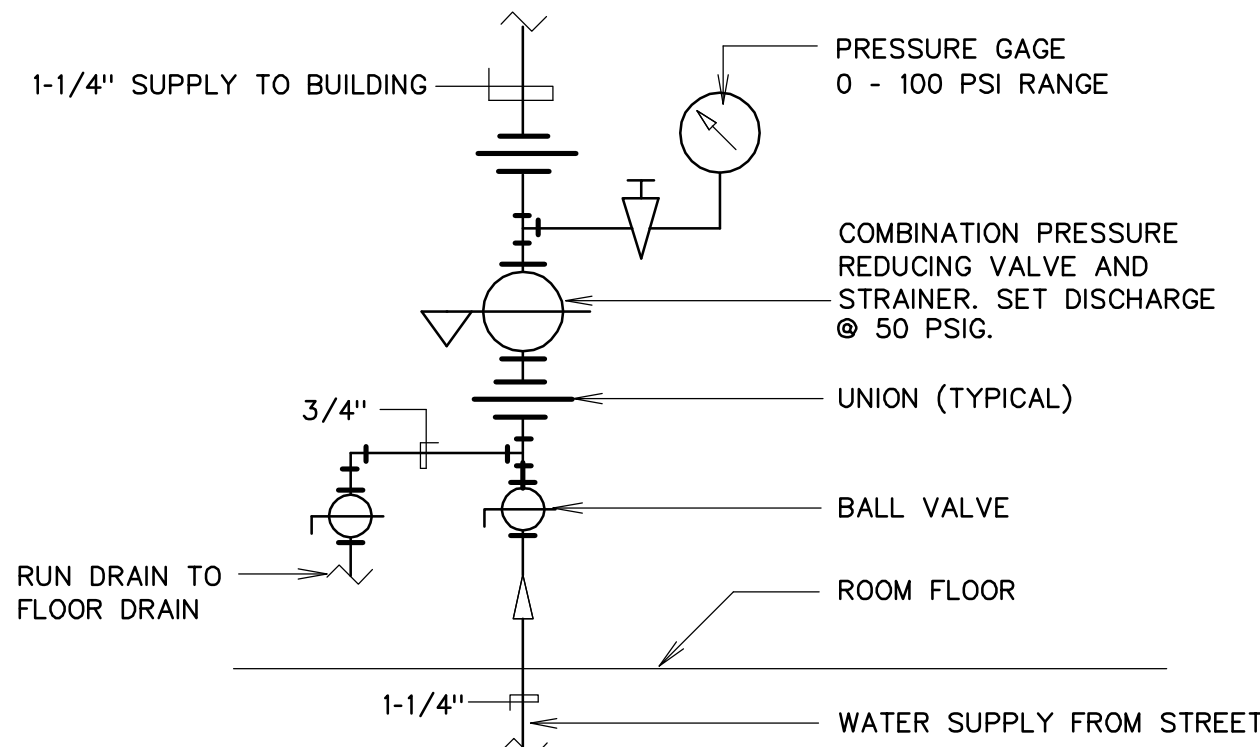
PRESSURE AVAILABLE AT PRV 50.0 PSI
LOSS THROUGH PRV 2.35 PSI
PRESSURE AVAILABLE FOR BUILDING SUPPLY 47.65 PSI
PIPING LENGTH PRV TO LAST FIXTURE 107 FT
MIN. PRESSURE REQUIRED AT FIXTURE 15.0 PSI
ALLOWABLE PRESSURE DROP THROUGH PIPING 32.65 PSI

PIPE FRICTION LOSS ALLOWABLE = $\frac{\text{ALLOW PRESSURE DROP}}{\text{LENGTH TO MOST DIST FIXTURE}} \times 100 \text{ FT}$
 $\frac{32.65 \text{ PSI}}{107 \text{ FT}} \times 100 \text{ FT} = 30.0 \text{ PSI PER } 100 \text{ FT}$

PLUMBING LEGEND			
MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	----	WALL CLEANOUT	WCO
COLD WATER LINE	----	CLEANOUT TO GRADE	COTG
VENT LINE	-----	BALL VALVE	⊕
WASTE LINE	----	UNION	⊕
GAS LINE	— GAS — GAS —	FLOOR DRAIN	⊕
VENT THRU ROOF	VTR	WITH TRAP PRIMER	W/TP



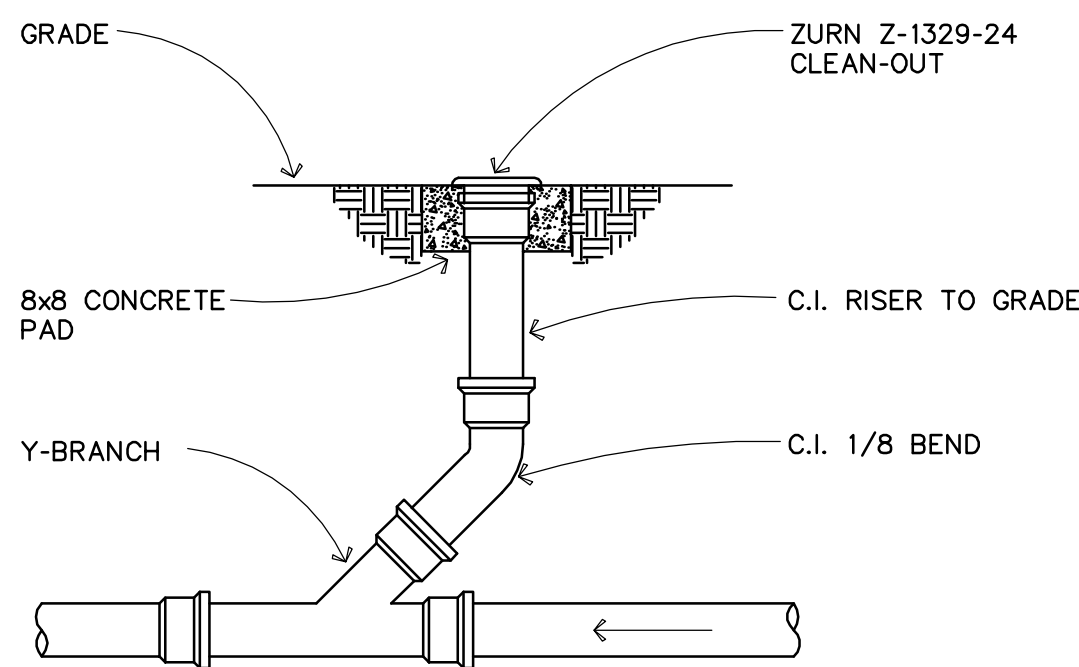
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VERTICAL WATER PRESSURE
REDUCING STATION DETAIL

SCALE: NONE

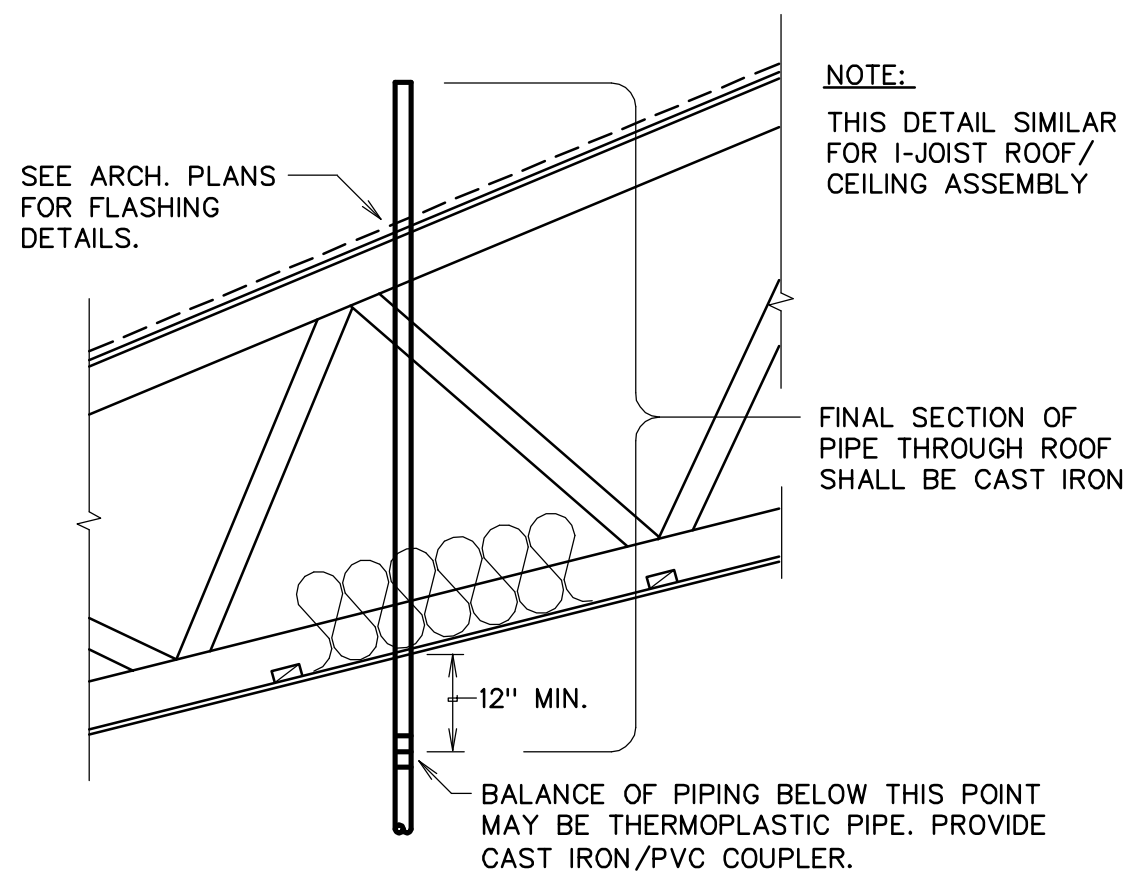
A
P-3



CLEANOUT TO GRADE DETAIL

SCALE: NONE

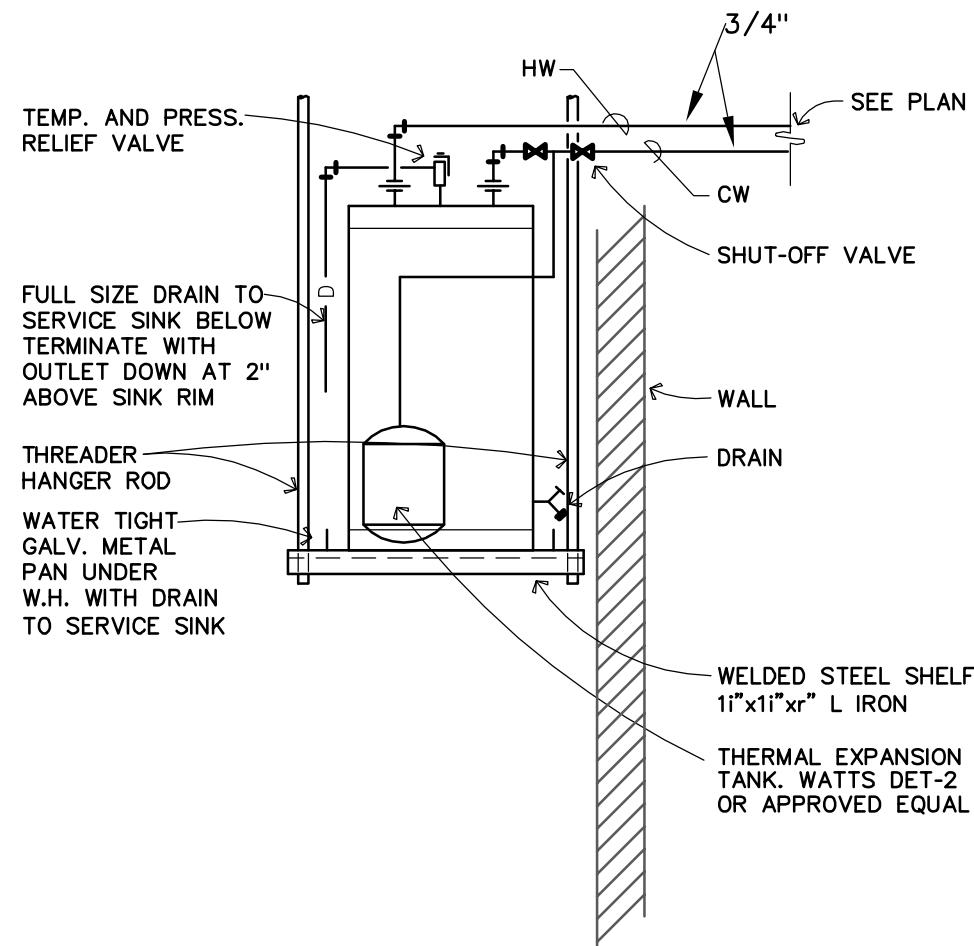
D
P-3



VENT THRU ROOF (VTR) DETAIL

SCALE: NONE

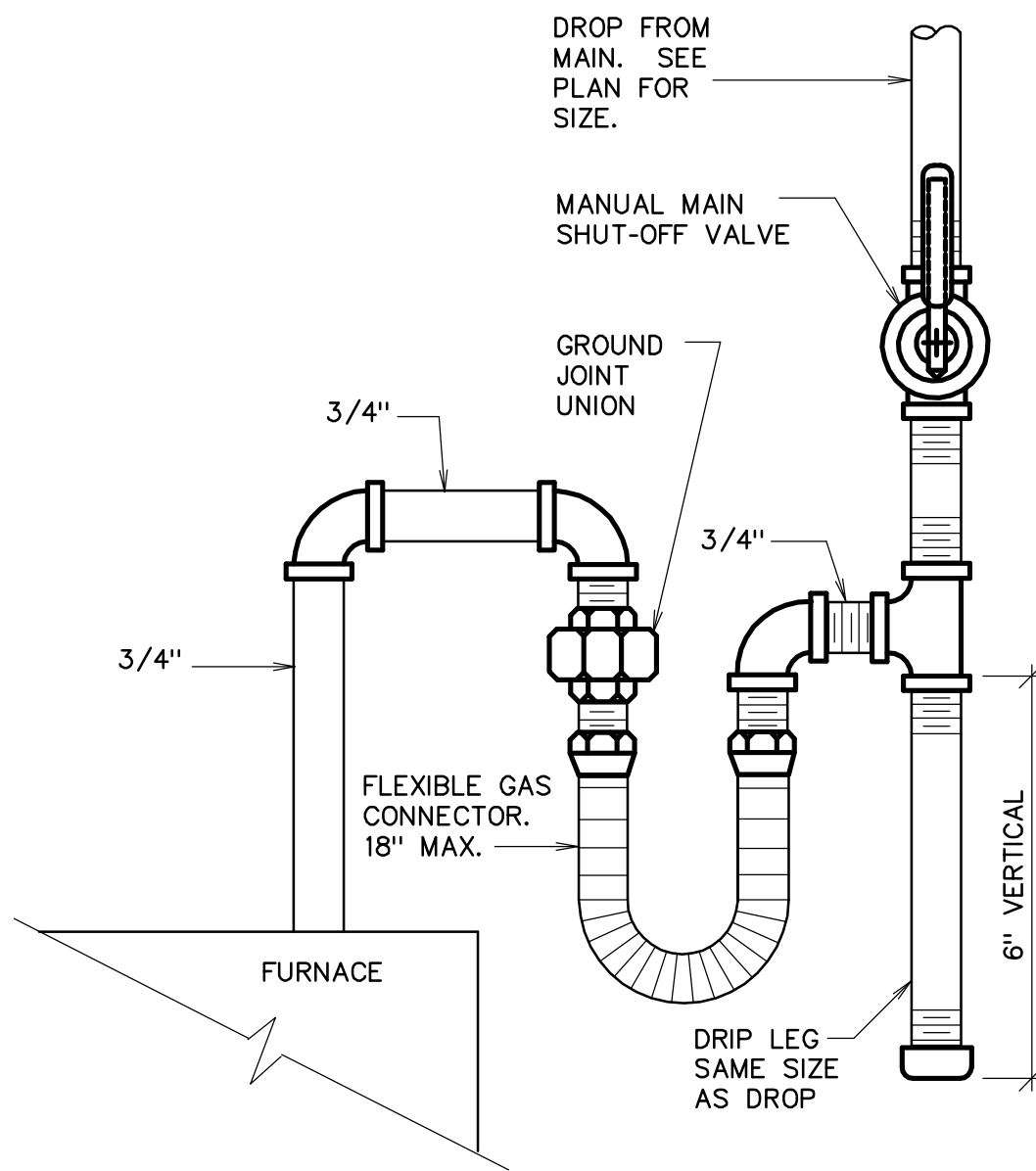
G
P-6



WATER HEATER DETAIL

SCALE: NONE

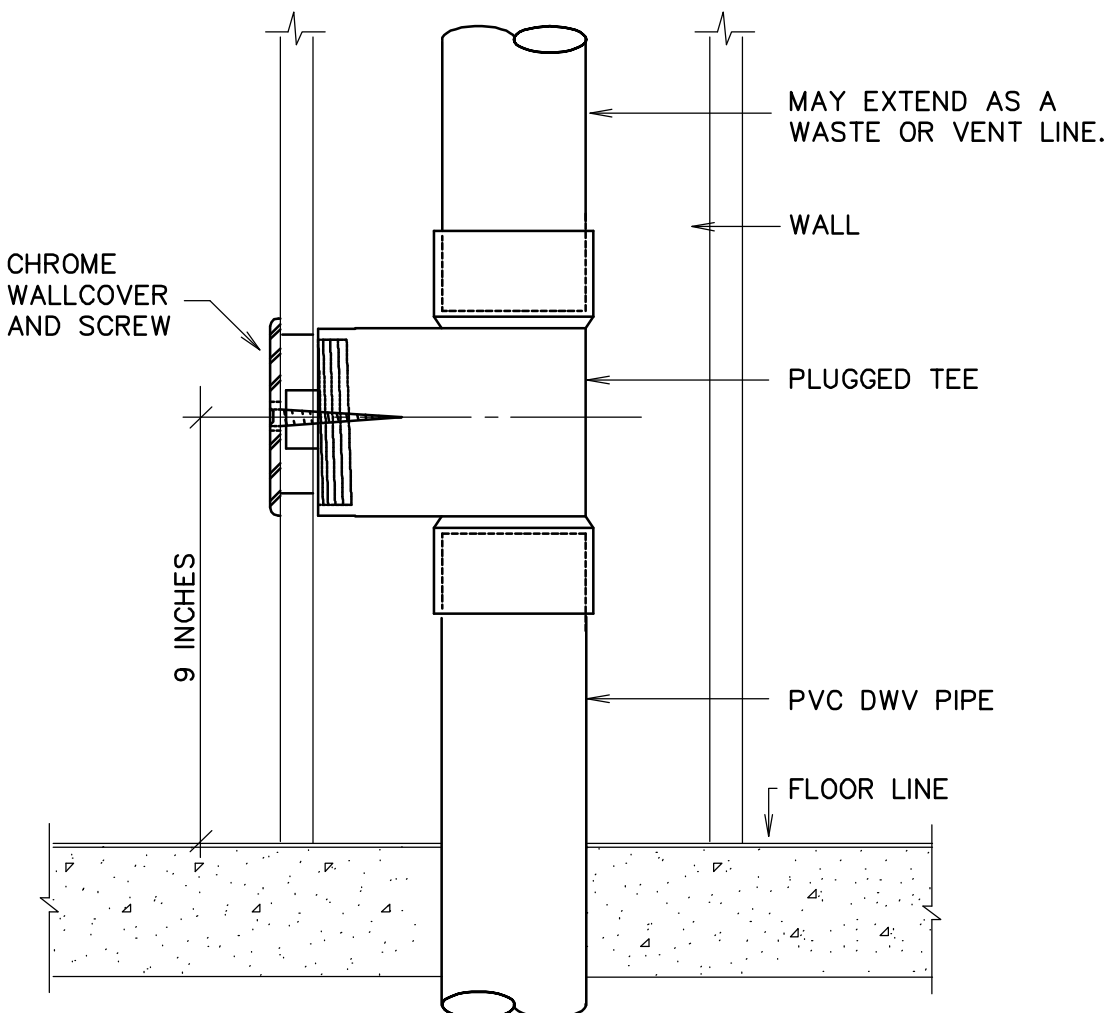
B
P-3



GAS LINE CONNECTION DETAIL

SCALE: NONE

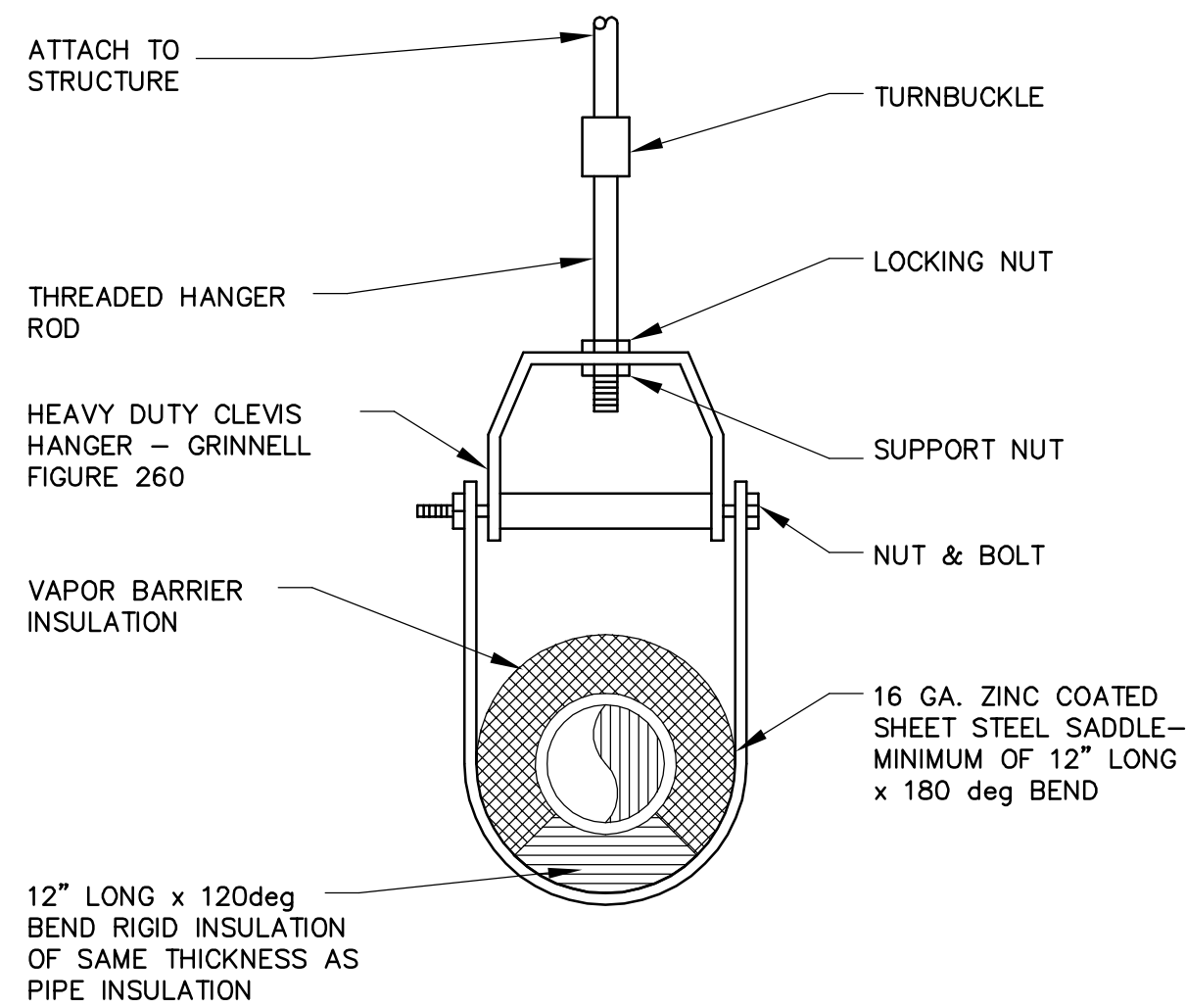
E
P-4



WALL CLEANOUT DETAIL

SCALE: NONE

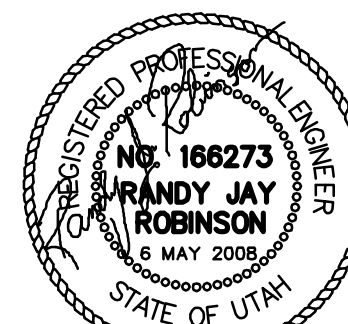
C
P-3

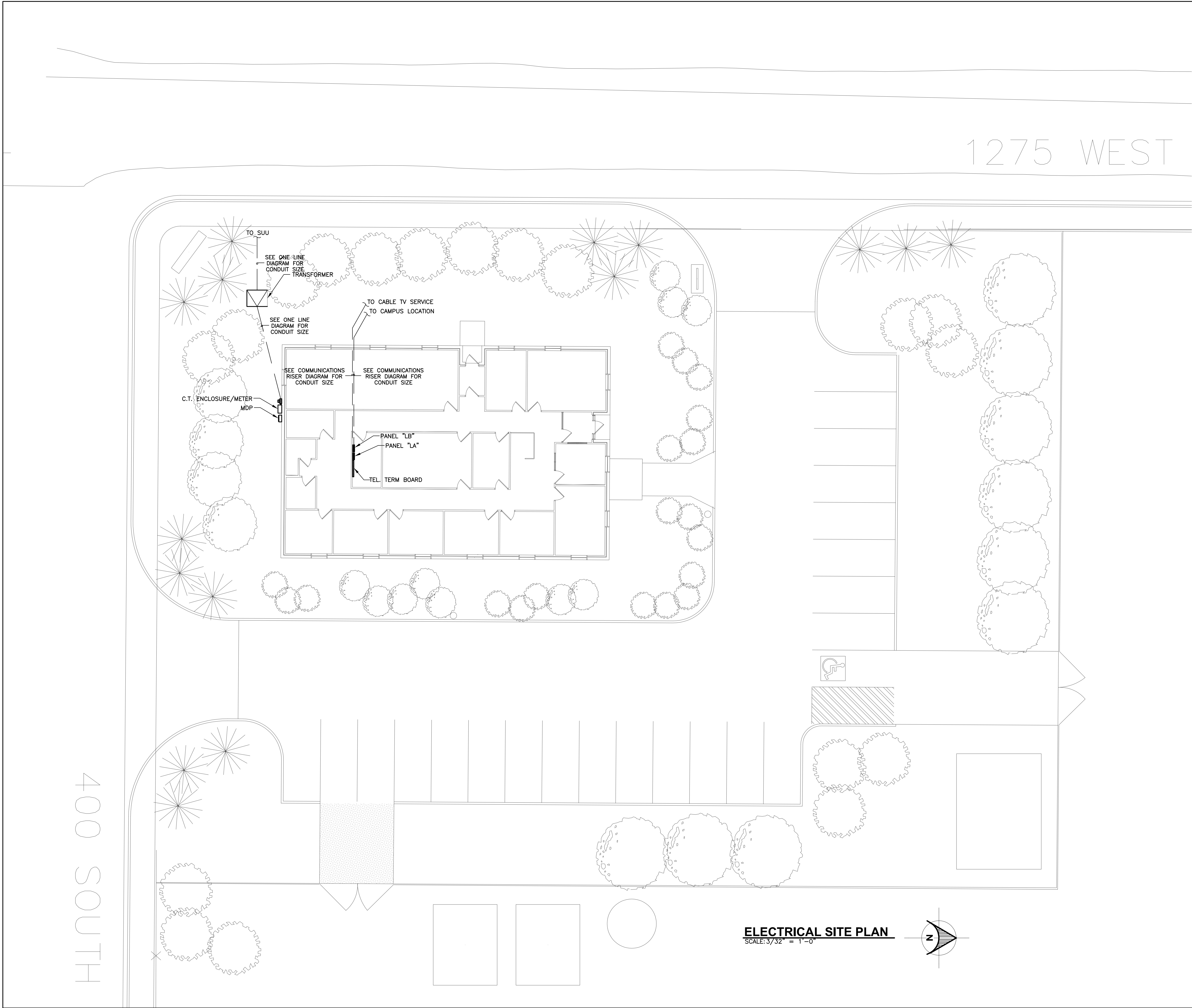


CLEVIS HANGER DETAIL -
INSULATED PIPE

SCALE: NONE

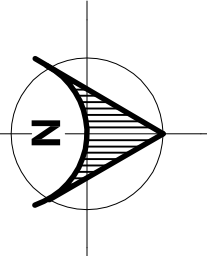
F
P-5





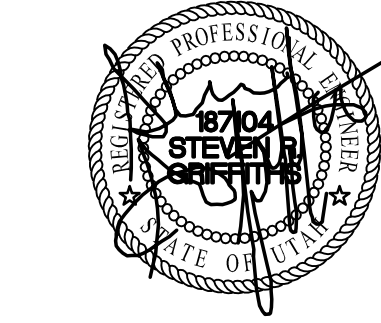
ELECTRICAL SITE PLAN

SCALE: 3/32" = 1'-0"



RE
ROYAL ENGINEERING
ELECTRICAL 2335 SOUTH STATE SUITE 225 PROVO, UTAH 84606
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MECHANICAL
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State of Utah-Department of Administrative Services
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT
410 State Office Building/Salt Lake City, Utah 84143-3018

Project: SUU FACILITIES MANAGEMENT OFFICE

Sheet Title:

SITE PLAN

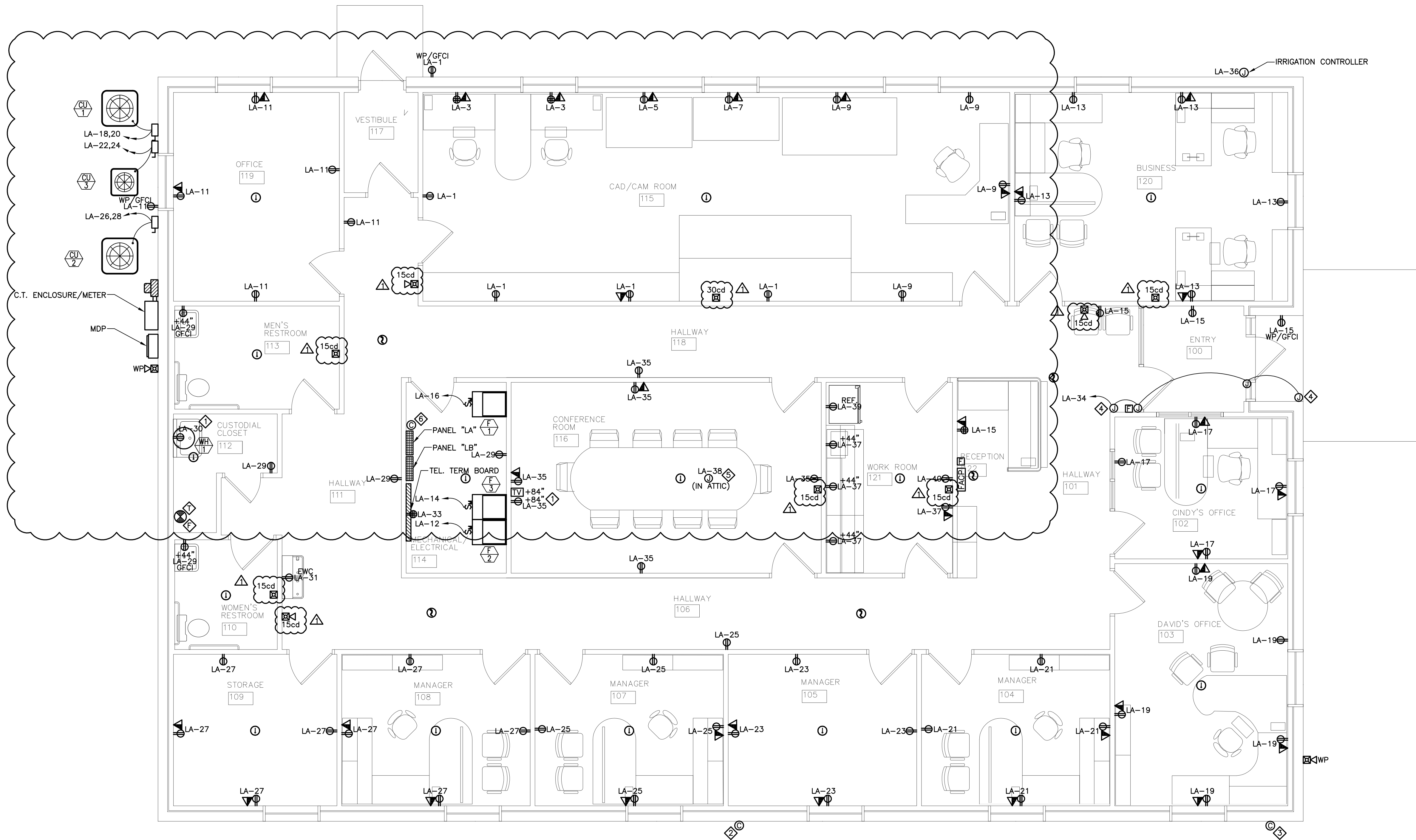
Revisions:

PROJECT NUMBER: J08090
DATE: MAY 2008
DRAWN BY: AMD
CHECKED BY: SRG
APPROVED BY: SRG

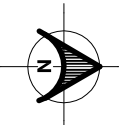
SHEET NUMBER: E1.0
Sheet 1 of 6

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ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

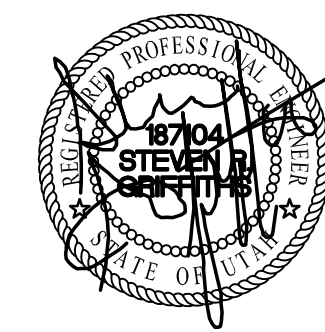


KEYED NOTES:

- ◇ VERIFY MOUNTING HEIGHT WITH OWNER/ARCHITECT.
- ◇ STUB (2) 1" CONDUIT FOR FUTURE ROPES COURSE POWER AND PHONES.
- ◇ STUB (1) 1" C. WITH (2) #10 CU. AND (1) #10 GND FOR FUTURE SITE LIGHTING.
- ◇ PROVIDE AND INSTALL FOR AUTOMATIC DOORS AS REQUIRED. COORDINATE LOCATIONS BEFORE INSTALLATION OF DOOR MULLION.
- ◇ POWER FOR ROOF VENT. TO BE PROVIDED AND INSTALLED BY OTHERS.
- ◇ STUB (1) 2" CONDUIT FOR FUTURE SOLAR PANELS TO BE LOCATED ON SITE.

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State of Utah-Department of Administrative Services
**DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT**
410 State Office Building/Salt Lake City, Utah 84143/808-308

Project: **SUU
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OFFICE**

Sheet Title:

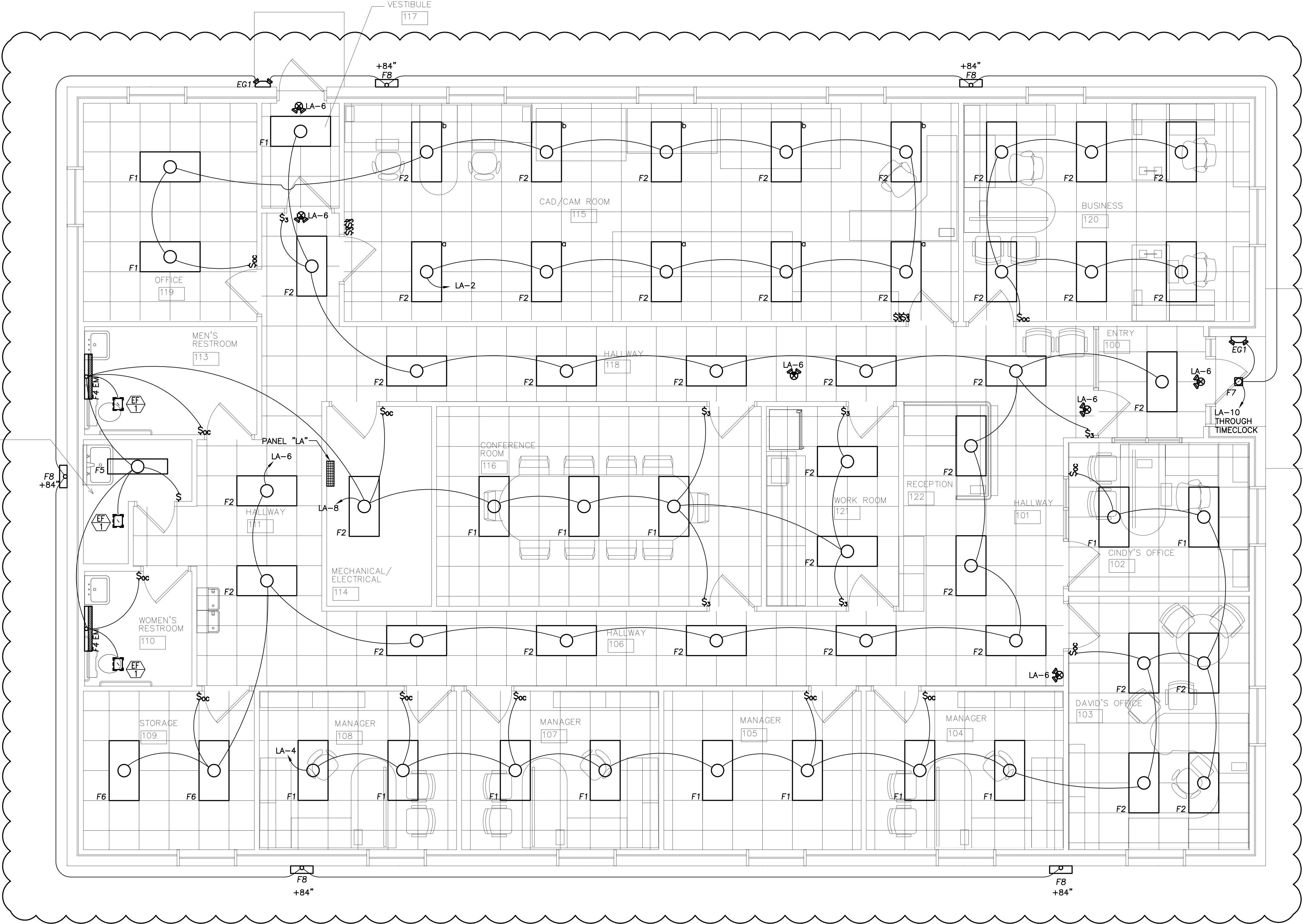
**POWER
PLAN**

Revisions:

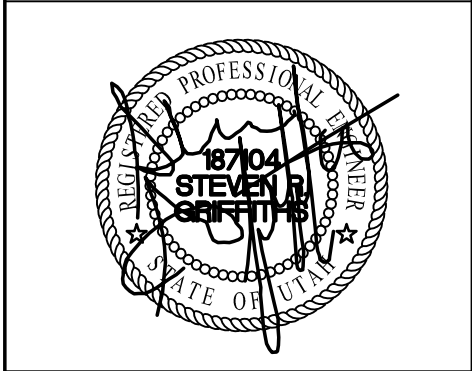
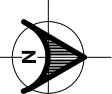
PROJECT NUMBER: J08090
DATE: MAY 2008
DRAWN BY: AMD
CHECKED BY: SRG
APPROVED BY: SRG

SHEET NUMBER: E1.1
Sheet 2 of 6

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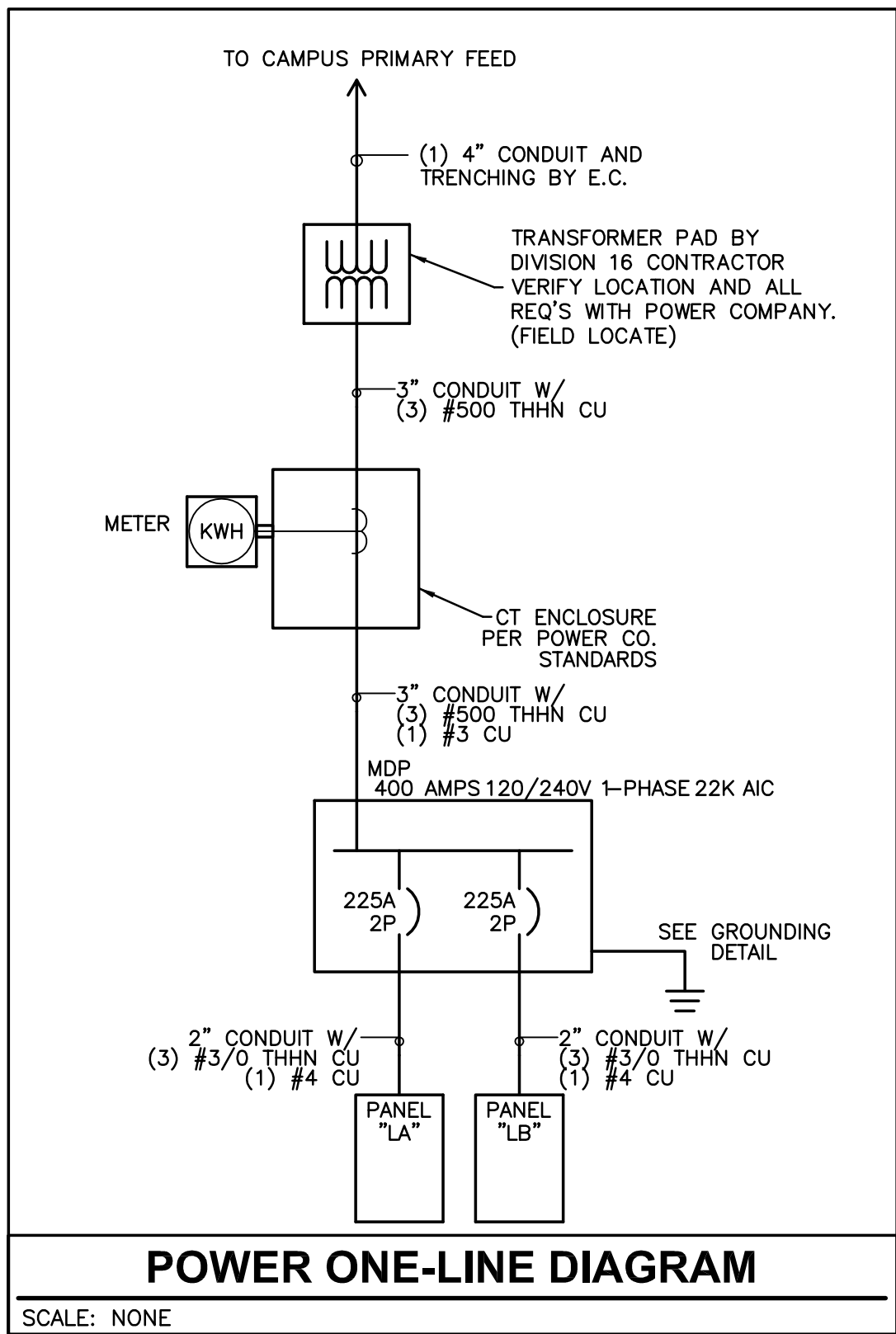
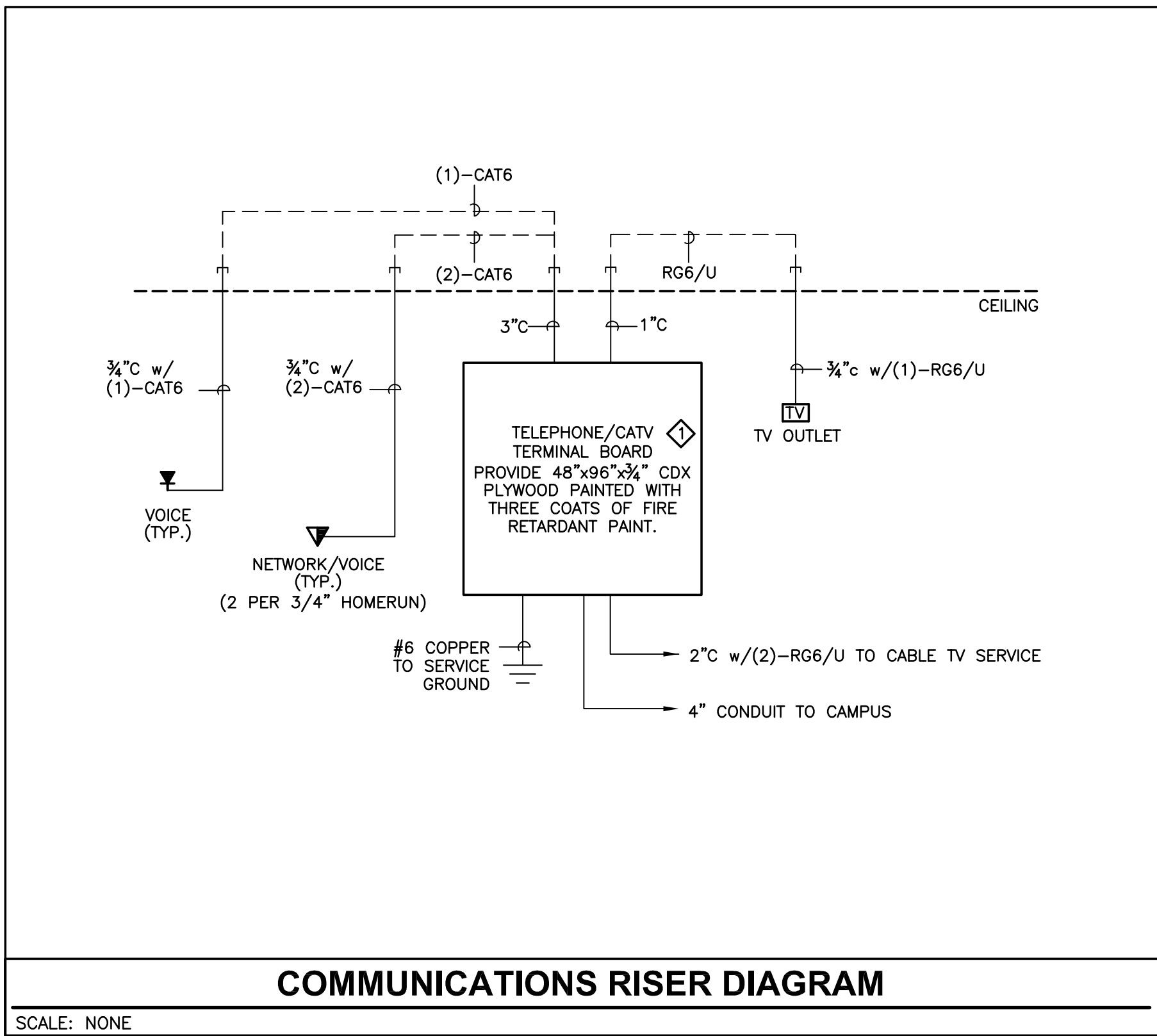
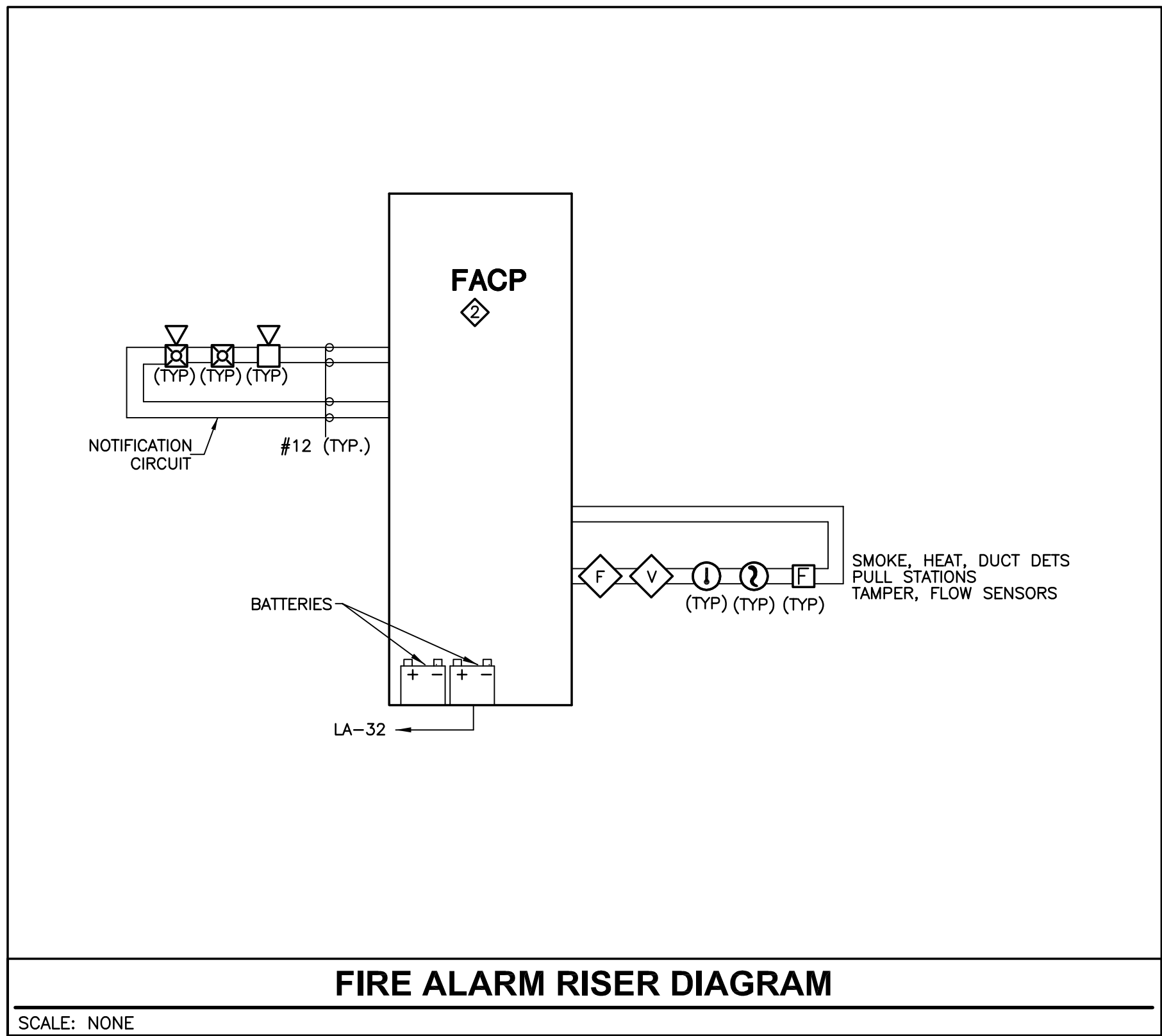


ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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- KEYED NOTES:**
- CONTRACTOR TO INSTALL JACKS, CAT6 CABLE AND PATCH PANEL. SUU PERSONNEL TO TERMINATE CABLES AT PATCH PANEL.
 - SIMPLEX EQUIPMENT TO BE PROVIDED BY SUU PERSONNEL. EQUIPMENT TO BE INSTALLED AND PROGRAMMED BY CONTRACTOR.

LIGHT FIXTURE SCHEDULE							
FIXTURE NUMBER	FIXTURE MANUFACTURER	FIXTURE CATALOG #	LAMPS		FIXTURE		REMARKS
			TYPE	QTY.	VOLTS	WATTS	
F1	LITHONIA METALUX DAYBRITE LSI COLUMBIA	2AV G 3 32 MDR GEB 2RD1-332RP-EB81 2AVG332-PMW-1/3-EB 2LLGC 332 SSO RPW STR24-332G-MPO-3EB8LHUNV	F32T8/SP35 ECO	3	120	99	LAY-IN GRID PROVIDE WITH ELECTRONIC BALLAST
F2	LITHONIA METALUX DAYBRITE LSI COLUMBIA	2AV G 2 32 MDR GEB 2RD1-332RP-EB81 2AVG232-PMW-1/2-EB 2LLGC 232 SSO RPW STR24-232G-MPO-EB8LHUNV	F32T8/SP35 ECO	2	120	66	LAY-IN GRID PROVIDE WITH ELECTRONIC BALLAST
F3							NOT USED
F4	LITHONIA L.A. LIGHTING DAYBRITE METALUX LSI COLUMBIA	WS 2 25-A12 GEB BAN100-2-3RFP-PA-2EB1 CD 225W-2/1-EB BE-225-EB81 BR 225 SSO SA3-225-EB8LHUNV	F25T8/SP35 ECO	2	120	56	SURFACE WALL PROVIDE WITH ELECTRONIC BALLAST
F5	LITHONIA METALUX DAYBRITE LIGHTOLIER LSI COLUMBIA	LB 2 32 GEB WS-232A-EB81 CAN232-1/2EB WA4A232-S0 PR 232 SSO WCW4-232-EB8LHUNV	F32T8/SP35 ECO	2	120	66	SURFACE CEILING PROVIDE WITH ELECTRONIC BALLAST
F6	LITHONIA METALUX DAYBRITE LSI COLUMBIA	2GT8 232 A12125 GEB 2GR8-232-EB81 2TG8232-12-1/2EB LA125-232-SD SSO ST824-232G-FSA12-125-EB8LHUNV	F32T8/SP35 ECO	2	120	66	LAY-IN GRID PROVIDE WITH ELECTRONIC BALLAST
F7	LITHONIA PORTFOLIO OMEGA LIGHTOLIER PRESCOLITE	AH 70M 7AR MD770-770LLI OM870ED17MH-C5 DL7A-DL7A/70HC RHD601-70MHFE-STH602	70W MH	1	120	80	RECESSED
F8	LITHONIA DAYBRITE EXCELINE LUMARK WPHARRIS HUBBELL	TWA 100M LPI WLD100M-LP SPW103MAL MHGP-100H-MT-LL 1200 WP 100MH HPF 120 LP PGM-100H-128-1L	100W MH	1	120	118	SURFACE WALL
EG1	LITHONIA MCPHILBEN LIGHTGUARD DUAL-LITE	AFN DB EXT PDBNZ UV16LX-HR LSCNI	6W XENON INCLUDED	2	120	12	SURFACE WALL EMERGENCY EGRESS
EM	BODINE LITHONIA IOTA EELP DUAL-LITE	B50 PS1100 I40 EB1400 UFO-GW	---	---	120	---	---
EX	LITHONIA MCPHILBEN LIGHTOLIER DUAL-LITE	LOM S W 3 G EL N CXXL-3-GW LDS-N-U-G-W CV-3-G-E-W	INCLUDED	2	120	1.5	UNIVERSAL NICKEL/CADMIUM BATTERY SINGLE FACE EXIT

EQUIPMENT SCHEDULE										
SYMBOL	DESCRIPTION	SERVICE		DISCONNECT		STARTER	LOAD			REMARKS
		VOLTS	PHASE	SIZE	FUSE		HP	VA	AMPS	
EF 1	EXHAUST FAN	120 V	1Ø	TOGGLE SWITCH	-	-	-	81	0.7 A	SWITCHED WITH LIGHTING
WH 1	WATER HEATER	120 V	1Ø	MANUAL STARTER	-	-	-	1,500	12.5 A	
F 1	FURNACE	120 V	1Ø	MANUAL STARTER	-	-	½ HP	1,176	9.8 A	
F 2	FURNACE	120 V	1Ø	MANUAL STARTER	-	-	½ HP	1,176	9.8 A	
F 3	FURNACE	120 V	1Ø	MANUAL STARTER	-	-	½ HP	864	7.2 A	
CU 1	CONDENSING UNIT	240 V	1Ø	60A NEMA 3R	-	-	-	6,288	26.2 A	
CU 2	CONDENSING UNIT	240 V	1Ø	60A NEMA 3R	-	-	-	6,288	26.2 A	
CU 3	CONDENSING UNIT	240 V	1Ø	30A NEMA 3R	-	-	-	4,560	19.0 A	

NOTES:

- VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS BEFORE BEGINNING ROUGH IN.
- ALL FUSES SHALL BE DUAL ELEMENT TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.
- MAXIMUM VALUES INDICATED.

PANEL SCHEDULE "LA"																			
VOLTAGE: 240 / 120 VOLTS				BUS RATING (AMPS): 225				REMARKS: * SEE ONE-LINE DIAGRAM FOR RATING.											
MOUNTING: SURFACE				PHASE: 1				MAIN LUGS ONLY											
ENCLOSURE: NEMA 1				WIRE: 3				SHORT CIRCUIT RATING: 22,000											
BREAKER				FEEDER				CKT. LOAD				FEEDER				BREAKER			
No.	AMPS	POLE	CIRCUIT NAME				C	WIRE	GRD	DEMAND FACTOR	WATTS	ØA	ØB	WATTS	DEMAND FACTOR	GRD	WIRE	C	
1	20	1	REC-CAD/CAM RM 115				¾"	#12	#12	1.00	900	2,154		1,254	1.00	#12	#12	¾"	WEST OFFICE AREA LTG
3	20	1	REC-CAD/CAM RM 115				¾"	#12	#12	1.00	720		1,974	1,254	1.00	#12	#12	¾"	EAST OFFICE AREA LTG
5	20	1	REC-CAD/CAM 115 COPIER				¾"	#12	#12	1.00	180	1,298		1,118	1.00	#12	#12	¾"	CORRIDOR AREA LTG
7	20	1	REC-CAD/CAM 115 PLOTTER				¾"	#12	#12	1.00	180		1,398	1,218	1.00	#12	#12	¾"	SOUTH/CONFERENCE AREA LTG
9	20	1	REC-CAD/CAM 115 HALL 117				¾"	#12	#12	1.00	900	1,640		740	1.00	#12	#12	¾"	EXTERIOR LTG
11	20	1	REC-MANAGER 119				¾"	#12	#12	1.00	900		2,076	1,176	1.00	#12	#12	¾"	F-2
13	20	1	REC-BUSINESS 120				¾"	#12	#12	1.00	900	1,764		864	1.00	#12	#12	¾"	F-3
15	20	1	REC-ENTRY 100/RECEPT. 122				¾"	#12	#12	1.00	900		2,076	1,176	1.00	#12	#12	¾"	F-1
17	20	1	REC-CINDY'S OFFICE 102				¾"	#12	#12	1.00	720	3,864		3,144	1.00	#10	#8	¾"	CU-1
19	20	1	REC-DAVID'S OFFICE 103				¾"	#12	#12	1.00	900		4,044	3,144	1.00	-	#8	-	-
21	20	1	REC-MANAGER 104				¾"	#12	#12	1.00	720	3,000		2,280	1.00	#10	#10	¾"	CU-3
23	20	1	REC-MANAGER 105				¾"	#12	#12	1.00	720		3,000	2,280	1.00	-	#10	-	-
25	20	1	REC-MANAGER 107				¾"	#12	#12	1.00	900	4,044		3,144	1.00	#10	#8	¾"	CU-2
27	20	1	REC-MANAGER 108/STORAGE 109				¾"	#12	#12	1.00	900		4,044	3,144	1.00	-	#8	-	-
29	20	1	REC-RESTROOM/HALL				¾"	#12	#12	1.00	900	2,400		1,500	1.00	#12	#12	¾"	WH-1
31	20	1	EWC				¾"	#12	#12	1.00	500		680	180	1.00	#12	#12	¾"	FACP
33	20	1	TEL. TERM. BOARD				¾"	#12	#12	1.00	360	1,560		1,200	1.00	#12	#12	¾"	AUTOMATIC DOOR
35	20	1	REC-CONFERENCE ROOM 116				¾"	#12	#12	1.00	1,080		2,280	1,200	1.00	#12	#12	¾"	IRRIGATION CONTROLLER
37	20	1	REC-WORKROOM 121				¾"	#12	#12	1.00	720	1,920		1,200	1.00	#12	#12	¾"	ROOF VENT
39	20	1	REC-FRIDGE				¾"	#12	#12	1.00	1,000		2,000	1,000	1.00	#12	#12	¾"	REC - COPIER
41			SPACE							1.00		0							SPACE

CONNECTED LOAD (VA)	23,644	23,572	47,216
CONNECTED LOAD (A)			197
DEMAND FACTOR ADJUSTMENTS (VA)	0	0	0
TOTAL LOAD (VA)	23,644	23,572	47,216
TOTAL LOAD (A)			197
PHASE LOADING (%)	50%	50%	

NOTES:

- ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW.
- LOAD DEMANDS CALCULATED AS PER SECTIONS 210 & 220 OF THE NATIONAL ELECTRICAL CODE.
- PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD"
- ABBREVIATIONS: REC-CONVENIENCE OUTLET, RR-RESTROOM, (N)ORTH, (S)OUTH, (E)AST, (W)EST

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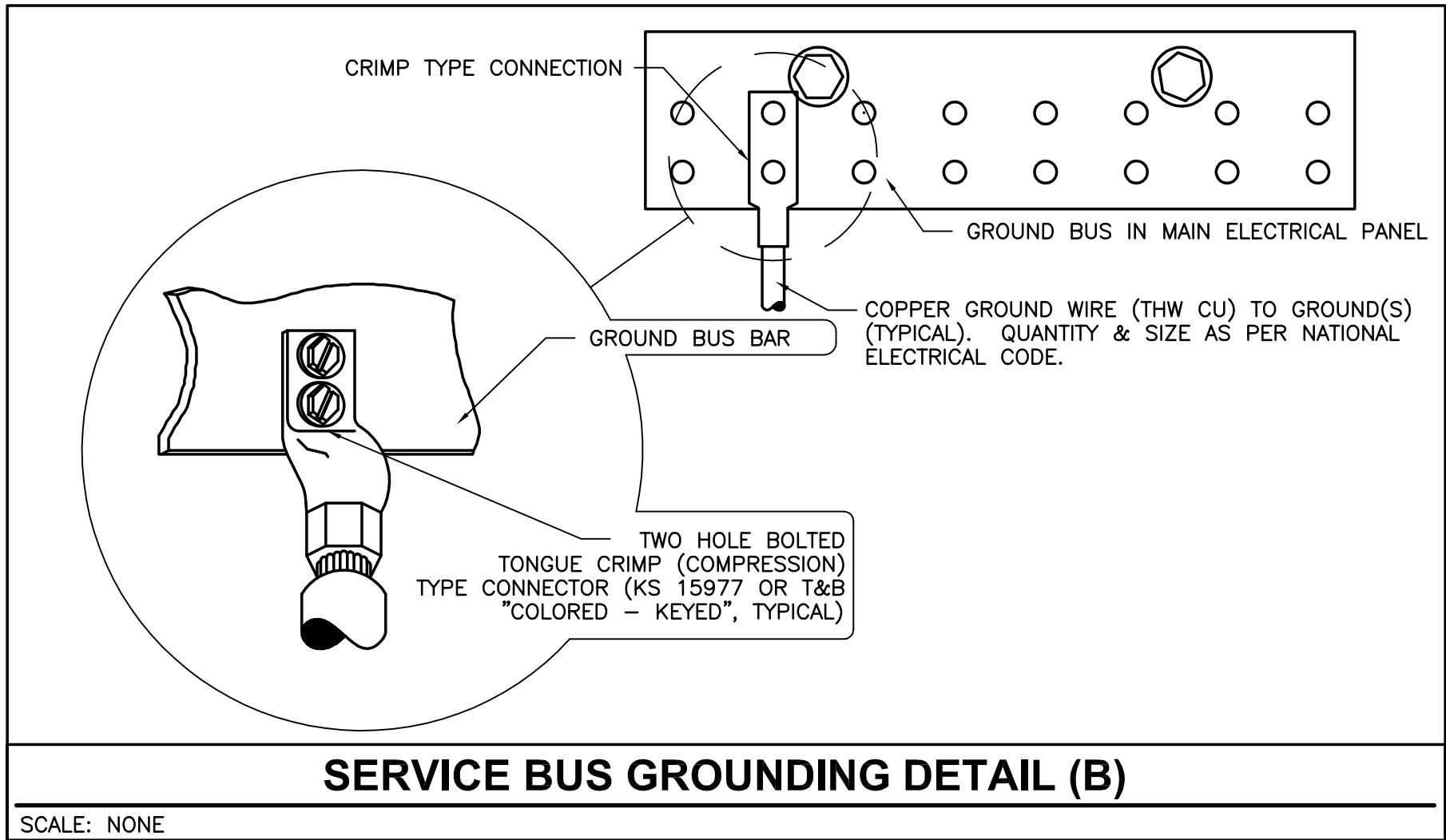
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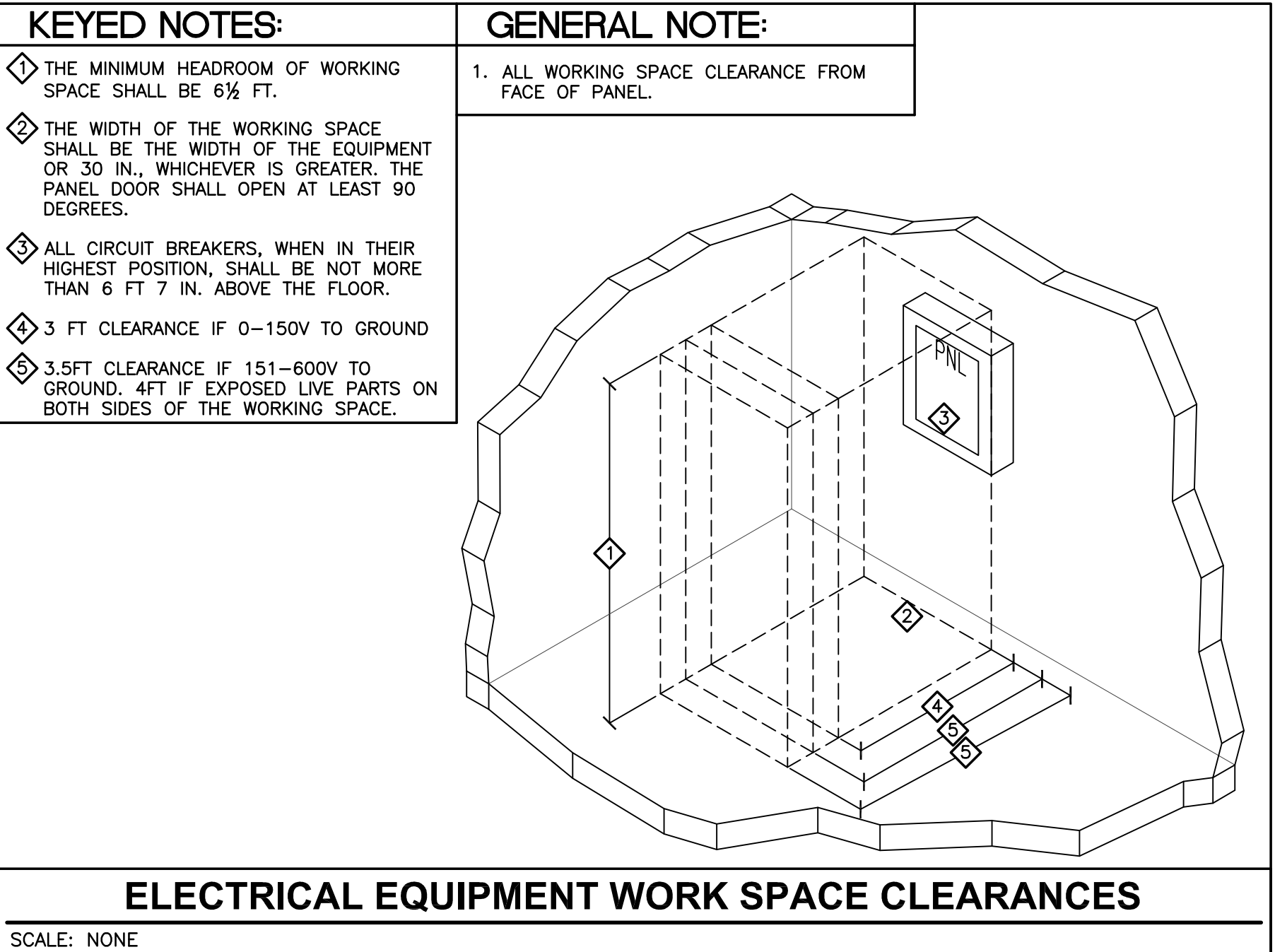
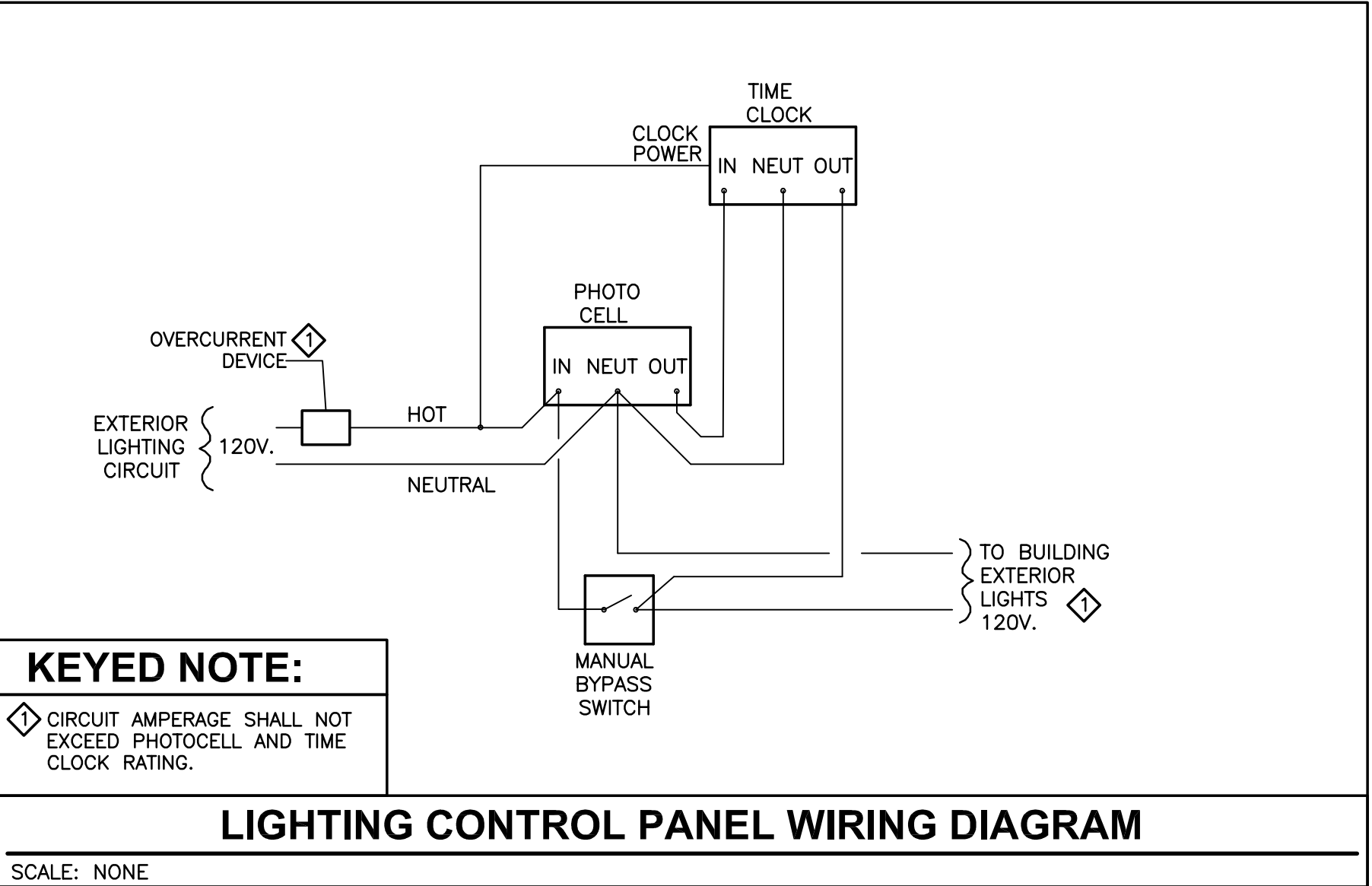
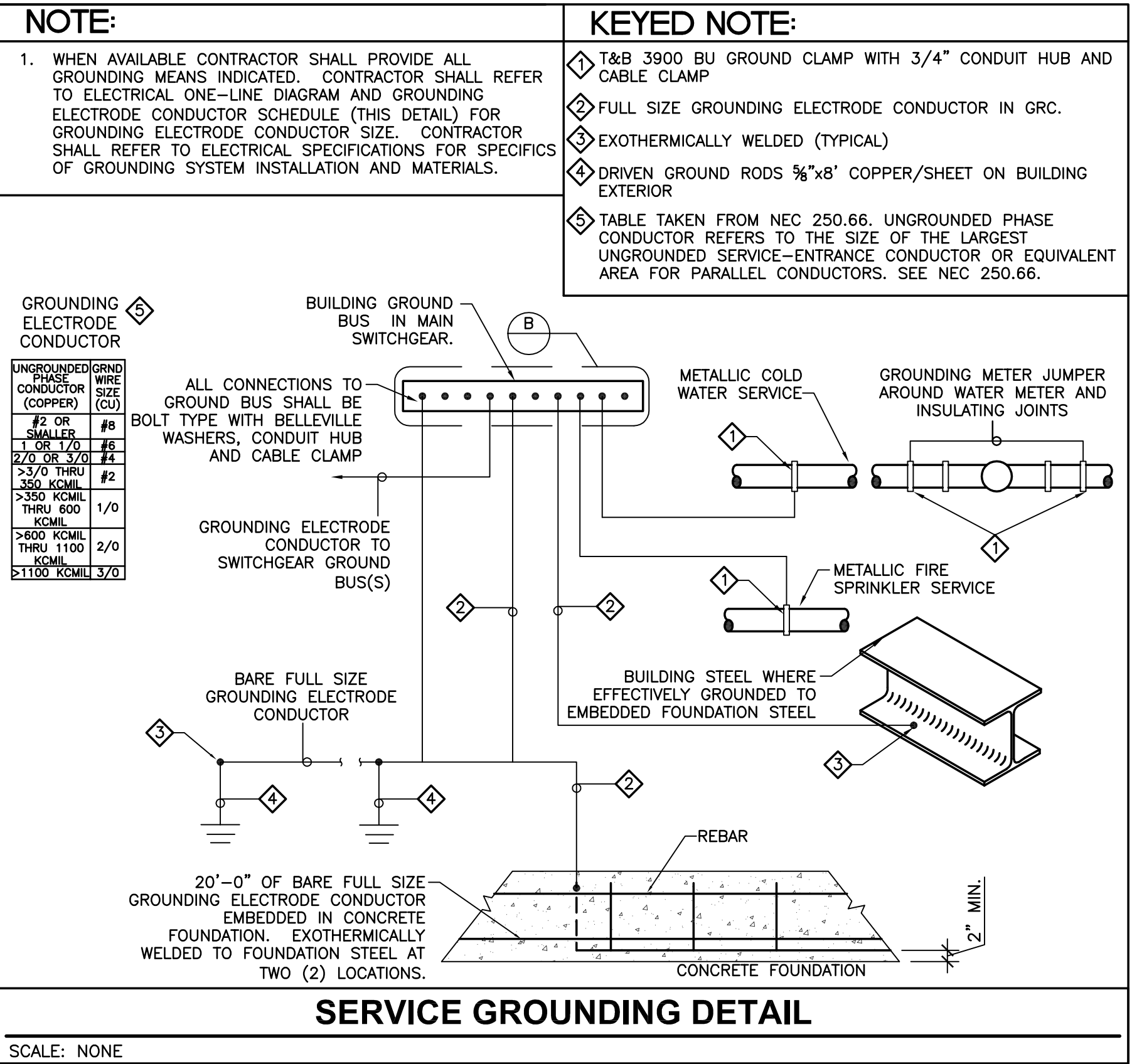
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ELECTRICAL SYMBOLS	
NOTE: ALL SYMBOLS MAY NOT BE USED	
SYMBOL	EXPLANATION
---	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL
----	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR
A-1,3	BRANCH CIRCUIT HOMERUNS TO PANEL
■	LIGHTING AND POWER PANELBOARD
CH 1	MECHANICAL EQUIPMENT SYMBOL
①	KEYED NOTE REFERENCE
Ⓜ	JUNCTION BOX
Ⓢ	DUPLEX RECEPTACLE OUTLET
WP A-3 REF	WP — MODIFIER A-3 — PANEL SPACE ASSIGNMENT REF — EQUIPMENT DESIGNATION
WP	WEATHERPROOF COVER
GFCI	PROTECTED BY FAULT CIRCUIT INTERRUPTER
+4.4	MOUNTING HEIGHT ABOVE FLOOR OR GRADE GIVEN IN INCHES.
REF	REFRIGERATOR
DW	DISHWASHER
DISP	DISPOSAL
WASH	WASHING MACHINE
EWC	ELECTRIC WATER COOLER
Ⓢ	QUAD RECEPTACLE OUTLET
Ⓢ	SPLIT WIRED DUPLEX RECEPTACLE OUTLET
WP GFCI	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI
GFCI	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION
EWC	RECEPTACLE ELECTRIC WATER COOLER (EWC)
Ⓢ	220V RECEPTACLE OUTLET
Ⓢ	ISOLATED GROUND RECEPTACLE
Ⓢ	RECEPTACLE FLOOR MOUNTED
Ⓢ	RECEPTACLE CEILING MOUNTED
Ⓢ	SPECIAL RECEPTACLE
Ⓢ	DISCONNECT SWITCH
Ⓢ	MOTOR STARTER
Ⓢ	FLUORESCENT FIXTURE (TYPICAL)
EM	EMERGENCY LIGHTING UNIT
Ⓢ	SURFACE OR PENDANT MOUNTED FIXTURE
Ⓢ	RECESSED FIXTURE
Ⓢ	WALL MOUNTED FIXTURE
Ⓢ	WALL PACK
Ⓢ	FLUORESCENT STRIP
Ⓢ	TRACK LIGHTING
Ⓢ	EMERGENCY LIGHTING UNIT
F1	FIXTURE TYPE SYMBOL
135	ROOM NUMBER
Ⓢ	CONDUIT STUB
SYMBOL	EXPLANATION
Ⓢ	SINGLE POLE SWITCH (SUBSCRIPT AS INDICATED BELOW)
2	TWO POLE SWITCH
3	3-WAY SWITCH
4	4-WAY SWITCH
D	DIMMER SWITCH
K	KEYED SWITCH
T	TIMER SWITCH
M	MANUAL STARTER WITH THERMAL OVERLOAD
F	EXHAUST FAN TIMER SWITCH
OC	OCCUPANCY SENSOR SWITCH
Ⓢ	CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)
Ⓢ	DOUBLE GANG SWITCH
Ⓢ	OCCUPANCY SENSOR SWITCH (CELLING MOUNTED)
Ⓢ	MOTOR OUTLET
Ⓢ	THERMOSTAT OUTLET
Ⓢ	REMOTE SENSOR OUTLET
Ⓢ	EXHAUST FAN
Ⓢ	BELL
Ⓢ	PUSHBUTTON
Ⓢ	VOLUME CONTROL
Ⓢ	SPEAKER
Ⓢ	TELEPHONE OUTLET
Ⓢ	COMPUTER DATA OUTLET
Ⓢ	NETWORK AND VOICE OUTLET
Ⓢ	TELEVISION OUTLET
Ⓢ	PHOTOCELL
Ⓢ	FIRE ALARM PULL STATION
Ⓢ	FIRE ALARM HORN/STROBE
Ⓢ	FIRE ALARM STROBE
Ⓢ	SMOKE DETECTOR (SUBSCRIPT AS INDICATED BELOW)
A	SMOKE ALARM
B	SMOKE ALARM BATTERY-BACKED
D	DUCT SMOKE DETECTOR
R	SMOKE DETECTOR WITH ELEVATOR RECALL MODULE
Ⓢ	HEAT DETECTOR
Ⓢ	WALL MOUNTED EXIT LIGHT (SINGLE FACE)
Ⓢ	WALL MOUNTED EXIT LIGHT (DOUBLE FACE)
Ⓢ	CEILING MOUNTED EXIT LIGHT
Ⓢ	CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)
Ⓢ	TAMPER AND FLOW VALVES
Ⓢ	FIRE/SMOKE DAMPER
Ⓢ	SECURITY CAMERA



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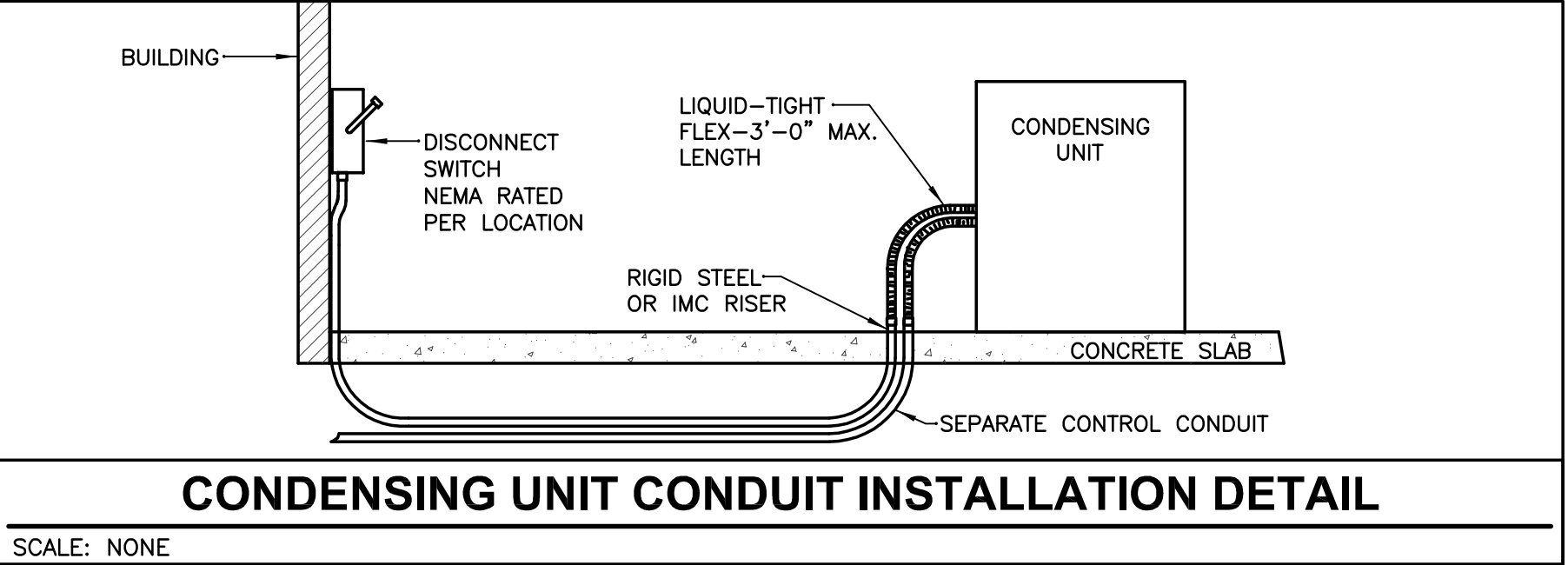
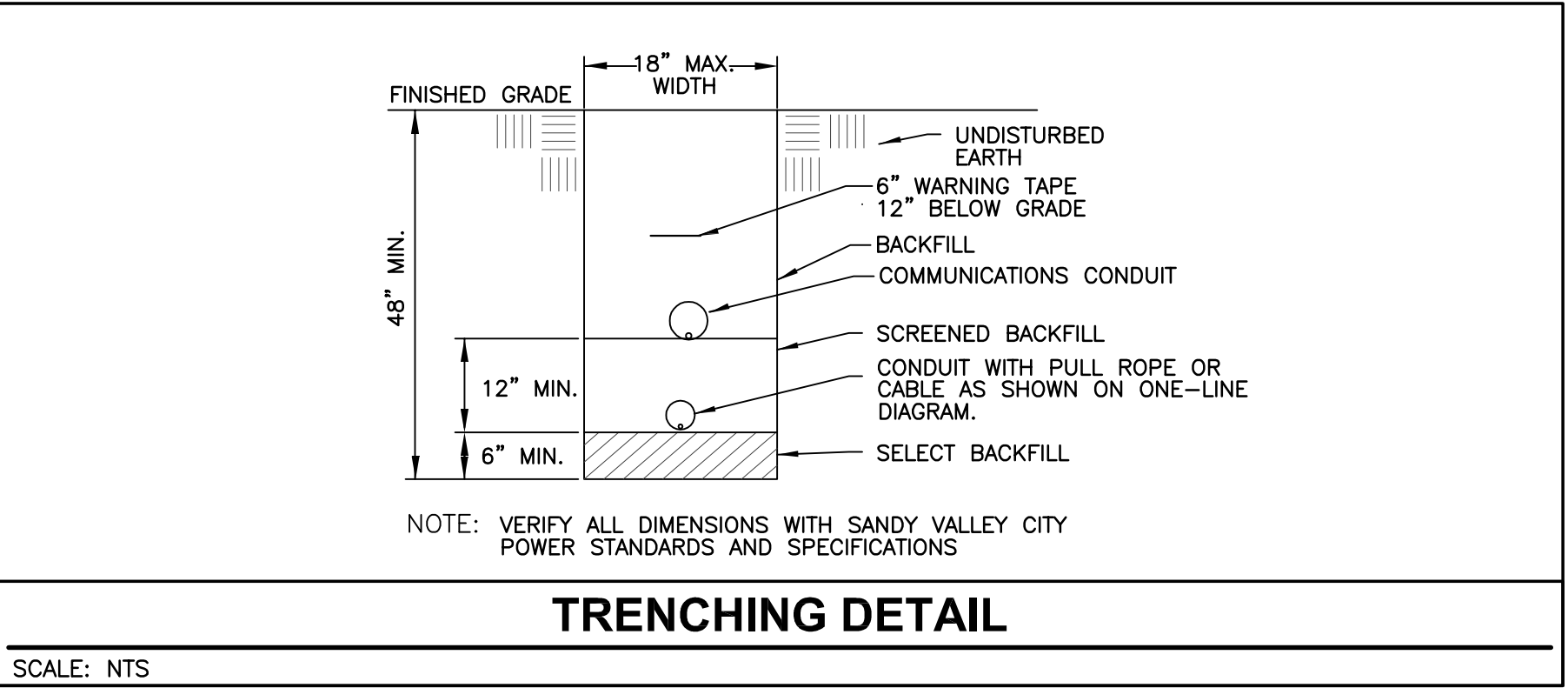
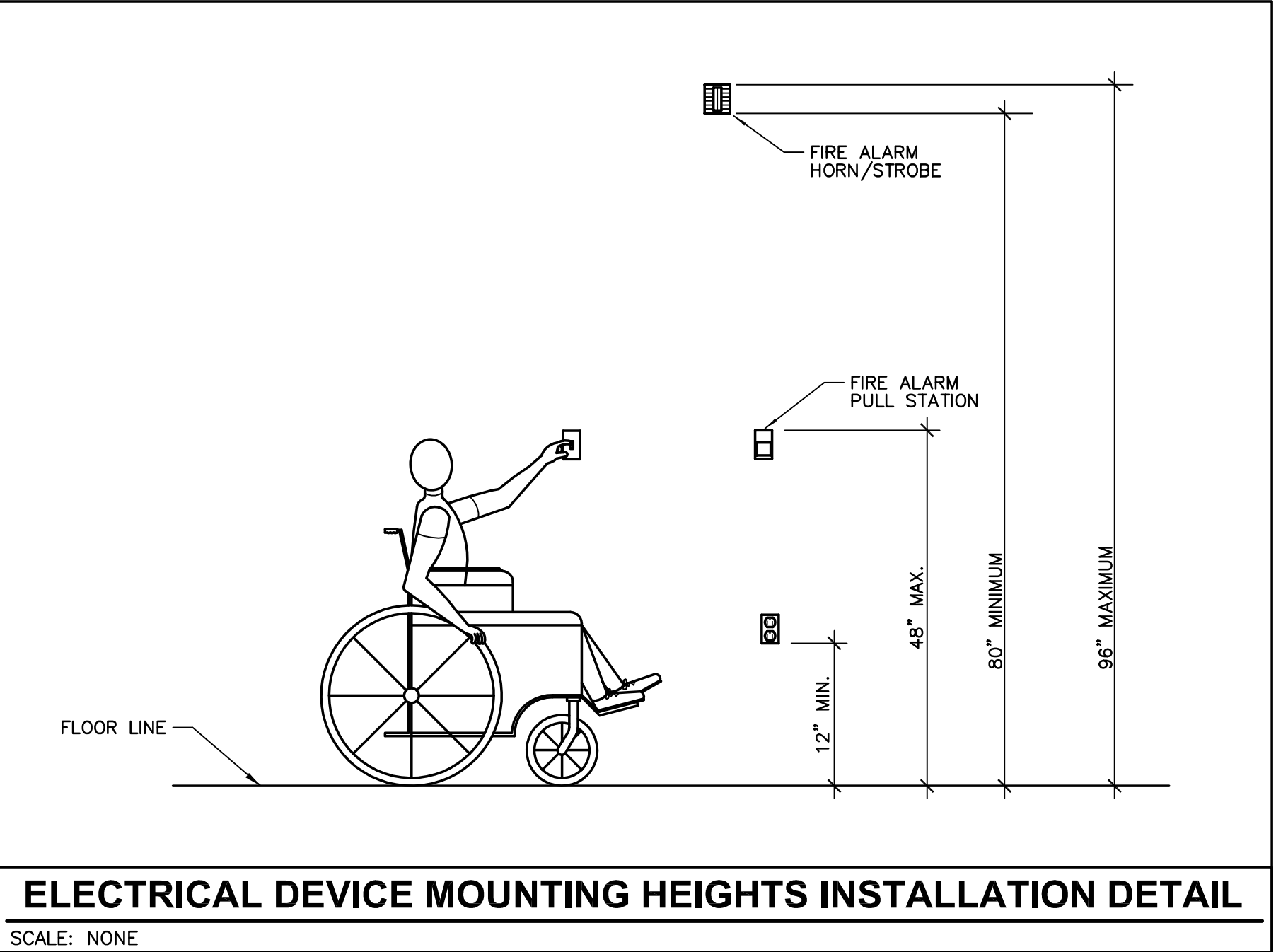
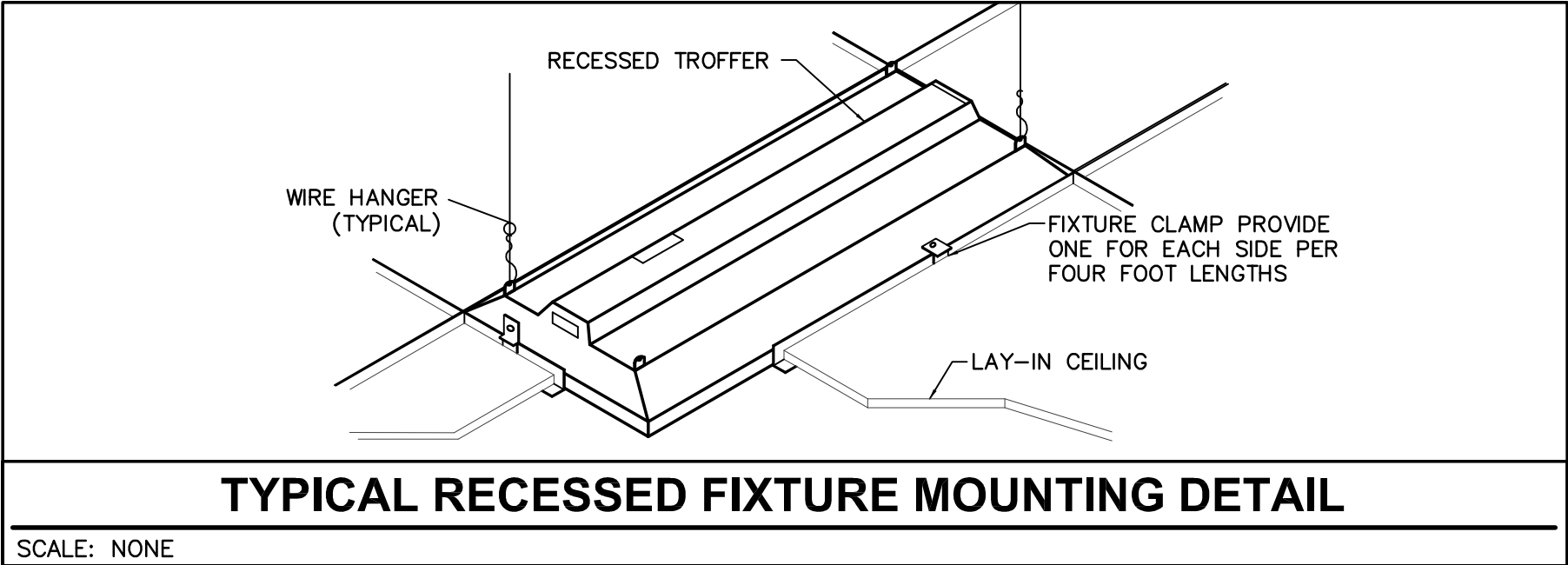
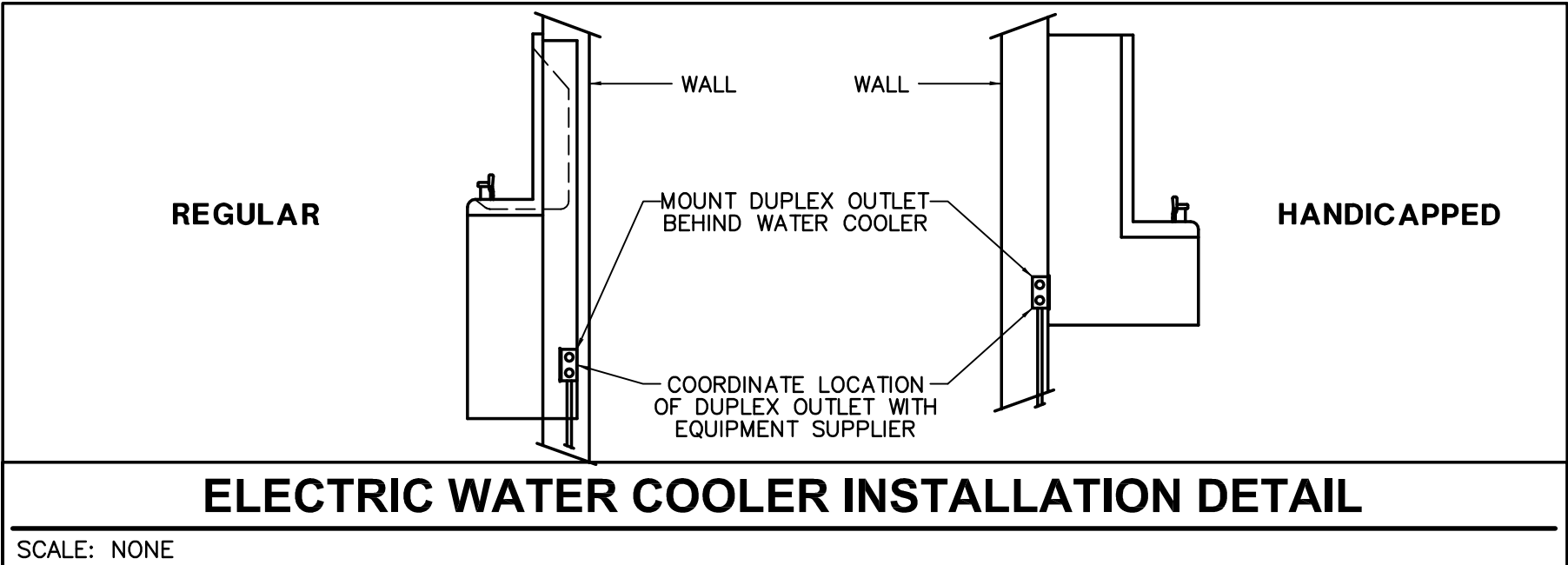
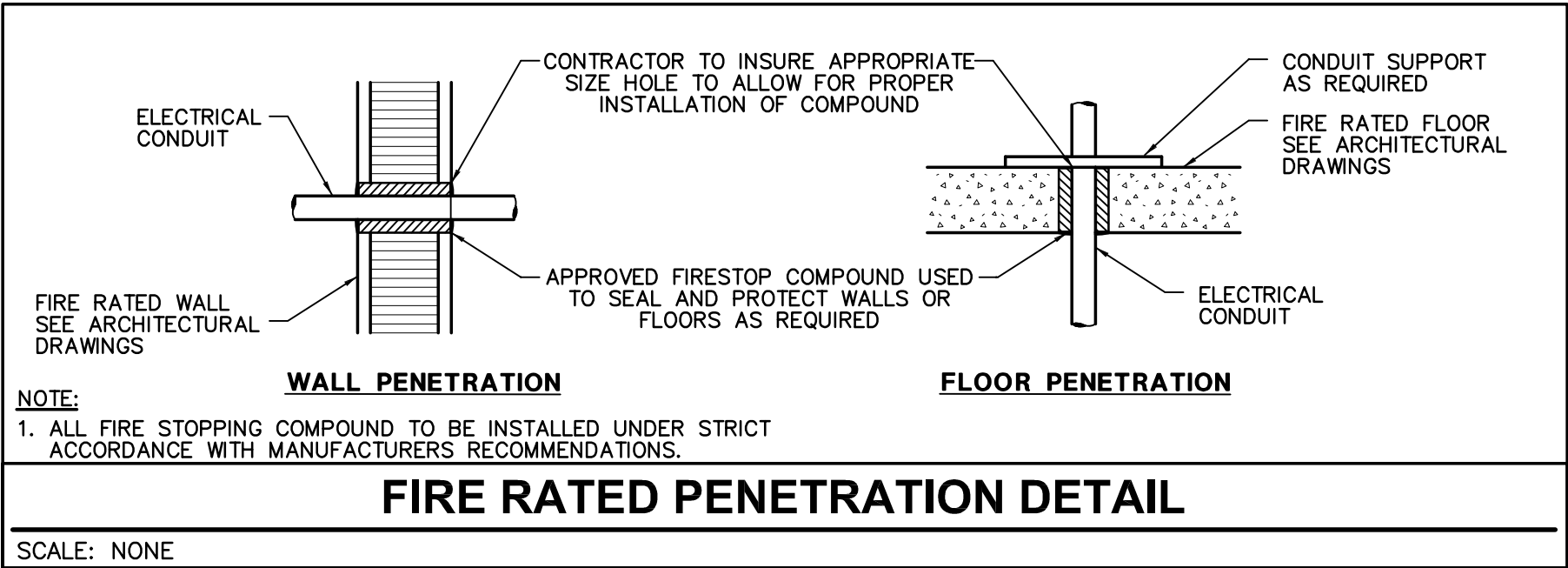
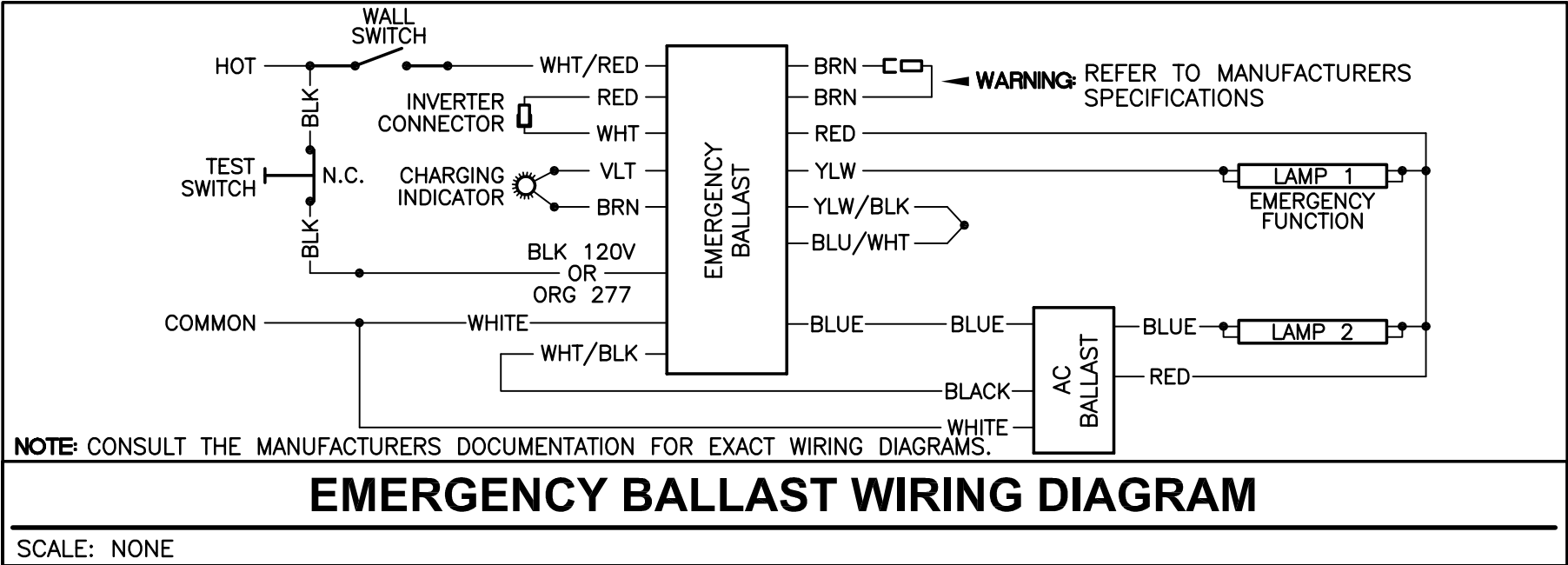
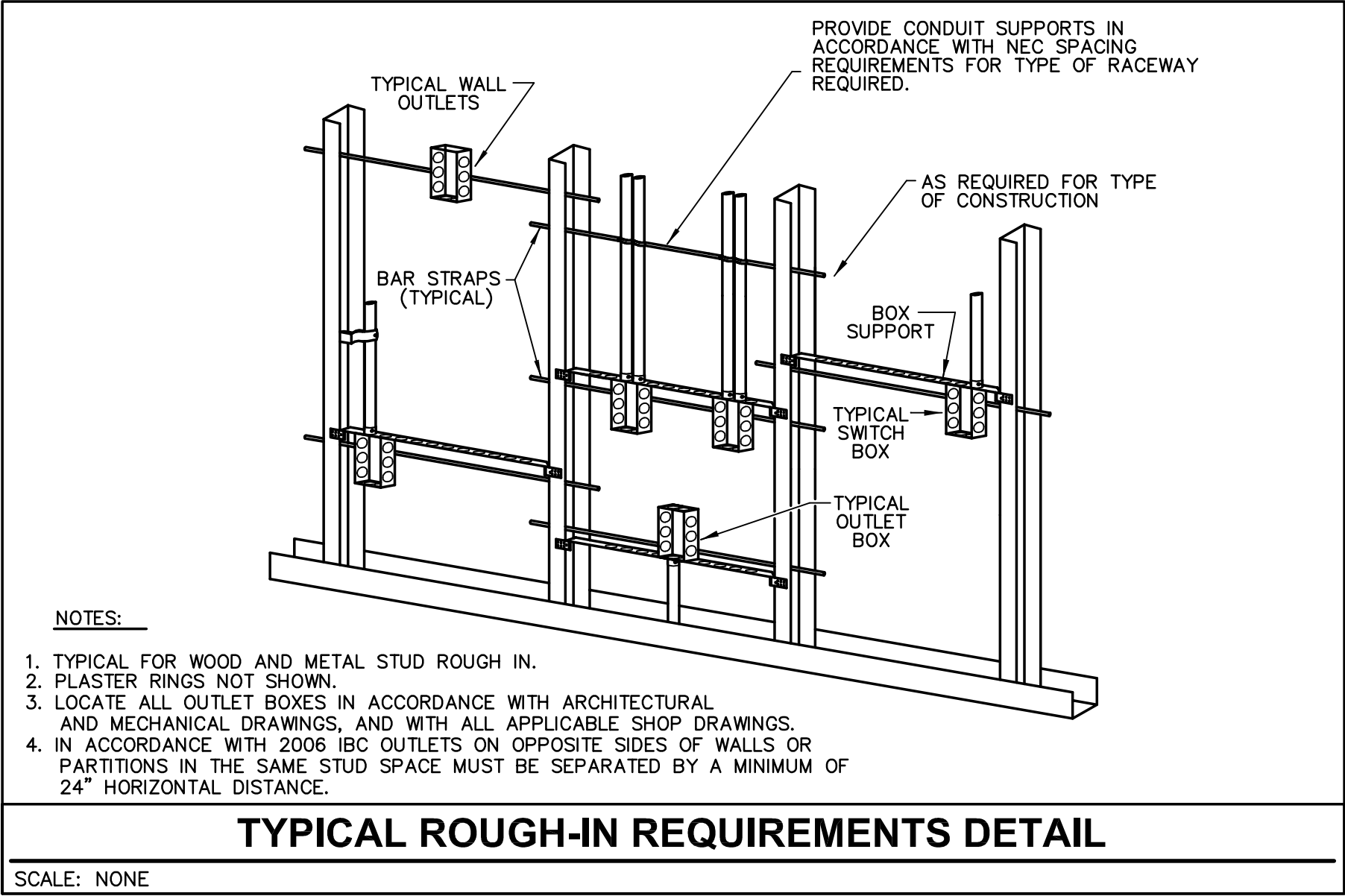
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